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ABSTRACT

This program guide contains the standard dental assisting curriculum for technical institutes in Georgia. The curriculum encompasses the minimum competencies required for entry-level dental assistants, and includes job skills in the technical areas of preventive dentistry; four-handed dentistry; chairside assisting with emphasis in diagnostics, operative, fixed prosthodontics, pediatric dentistry, orthodontic procedures, endodontic procedures, surgical specialties, and expanded functions; dental practice management; and dental radiology. The general information section contains the following: purpose and objectives; program description, including admissions, typical job titles, and accreditation and certification; and curriculum model, including standard curriculum sequence and lists of courses. The next three sections contain the courses: three general core courses (English, mathematics, and psychology); fundamental occupational courses (nutrition and diet therapy, basic human biology, head and neck anatomy, preventive dentistry, microbiology and infection control, oral anatomy, oral pathology and therapeutics, and scopes of professional practice), and specific occupational courses (dental assisting--diagnostic, operative, fixed prosthodontics; specialities; surgical specialties; expanded functions; dental practice--management; dental radiology; and dental practicums I-VII). Each course consists of the following: a course overview (description, competency areas, prerequisites, credit hours, contact hours); course outline with student objectives and class and lab hours; and resource list. An appendix includes an equipment list. (KC)

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GEORGIA DEPARTMENT OF TECHNICAL
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DENTAL ASSISTING
PROGRAM GUIDE

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DENTAL ASSISTING PROGRAM GUIDE

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DENTAL ASSISTING PROGRAM GUIDE

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HOW TO USE THIS MANUAL

Summary

This manual is divided into:

Tabs - major divisions, physically separated by numbered tab dividers

Sections - divisions within a tab

Subjects - divisions within a section

Numbering System

Each document (Subject) has a unique 6-digit number. This number is divided into 3 sets of 2 digits which are separated by dashes.

Example:	04	-	02	-	03
	TAB		SECTION		SUBJECT

Locating a Document

Document numbers appear on the upper right hand corner of each page (see top of this page). To locate a subject:

1. Refer to the Table of Contents.
2. Note the document number for the subject.

   Example: 04-02-03

3. Turn to the tab divider marked 04 and within this tab find Section 02 and Subject 03.

Table of Contents

The table of contents (00-00-01) is intended to give a cover-to-cover overview of the manual contents and organization. It lists contents of a Tab to the Section and Subject level.

Amendments

Registered manual holders are instructed to keep their manuals up-to-date.

Manuals Document Transmittal	All new or revised documents are sent to the registered holder of the manual and are recorded on a Manuals Document Transmittal Form. Transmittals are numbered consecutively, and instructions for use are printed on the form.
Amendment Record	The registered holder of the manual records the receipt of all manual document transmittals on the Amendment Record. This record and instructions are found on the reverse side of the manual title page.

GENERAL INFORMATION

Introduction

Overview

Dental Assisting is a program of study which is consistent with the philosophy and purpose of the institution. The program provides academic foundations in communications, mathematics, and human relations, as well as occupational fundamentals. Program graduates are well trained in the underlying fundamentals of dental assisting and are well prepared for employment and subsequent upward mobility.

The Dental Assisting program is a specialized training program that provides the student with the knowledge and skills to become a competent dental assistant in the modern dental profession. Skills application plays a vital role in the comprehensive dental assistant program. Important attributes of successful program graduates are critical thinking, problem solving, human relations skills, and the ability to apply knowledge and skills to the work requirement. This field has presently experienced rapid expansion and the trend is expected to continue for the foreseeable future.

The program structure acknowledges individual differences and provides opportunities for students to seek fulfillment of their educational goals. The program does not discriminate on the basis of race, color, national origin, religion, sex, handicapping condition, academic disadvantage, or economic disadvantage.

To assist each student to attain his or her respective potential within the program, both the instructor and the student incur an obligation in the learning process. The instructor is a manager of instructional resources and organizes instruction in a manner which promotes learning. The student assumes responsibility for learning by actively participating in the learning process.

This is a dynamic field which requires extraordinary attention to current curriculum and up-to-date instructional equipment. The Dental Assisting program must promote the concept of change as the profession evolves. The need for nurturing the spirit of involvement and lifelong learning is paramount in the dental assisting field.

GENERAL INFORMATION

Introduction

Standard Curriculum

The Dental Assisting program guide presents the standard dental assisting curriculum for technical institutes in Georgia. This curriculum addresses the minimum competencies for a Dental Assisting program. The competency areas included in a local Dental Assisting program may exceed what is contained in this program guide, but it must encompass the minimum competencies contained herein.

As changes occur in Dental Assisting, this program guide will be revised to reflect those changes. Proposed changes are first evaluated and approved by the local program advisory committee and then forwarded to the State Technical Committee for approval and inclusion in the state standard program guide.

This program guide is designed to relate primarily to the development of those skills needed by individuals in the dental assisting field, such as microbiology and infection control, oral pathology and therapeutics, and dental radiology.

GENERAL INFORMATION

Introduction

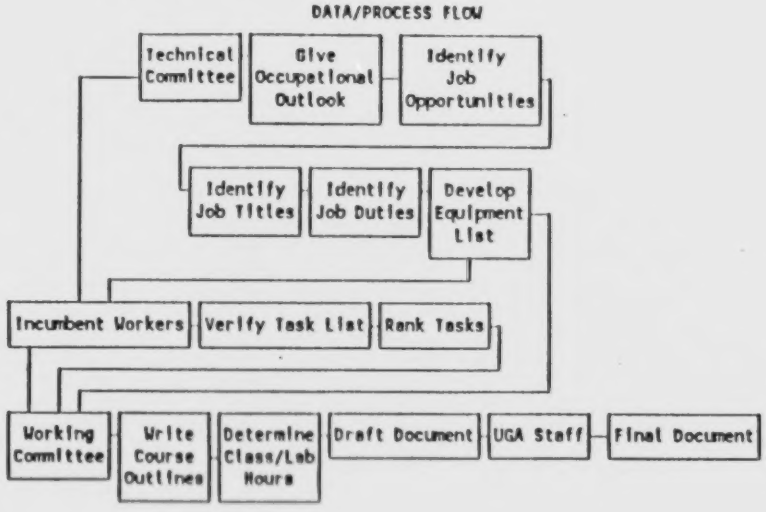
Developmental Process

The development of the Dental Assisting program guide was based on the premise that the people in the industry can best determine program needs. With this in mind, representatives from businesses which would employ program graduates were asked to serve on a State Technical Committee to help identify the technical content and to provide overall guidance to ensure that the resulting program would produce graduates qualified for entry-level occupational positions in the profession.

Representatives from the various occupational areas recommended by the State Technical Committee verified the task list compiled from extensive research. These were workers actually performing the duties and tasks being verified.

Technical institutes which would implement the curriculum were also included in the developmental effort. Representatives from the technical institutes provided the expertise in teaching methodology unique to each discipline and developed the courses contained in this program guide.

The University of Georgia coordinated and directed the development of the curriculum and produced the final program guide. The role of each group in the developmental process is shown in the following diagram.



GENERAL INFORMATION

Introduction

Purpose and Objectives

Purpose

The purpose of the Dental Assisting program is to provide educational opportunities to individuals that will enable them to obtain the knowledge, skills, and attitudes necessary to succeed in the field of dental assisting.

The Dental Assisting program provides educational opportunities regardless of race, color, national origin, religion, sex, age, handicapping condition, academic disadvantage, or economic disadvantage.

The Dental Assisting program is intended to produce graduates who are prepared for employment as dental assistants. Program graduates are to be competent in the general areas of communications, mathematics, and interpersonal relationships.

Program graduates are to be competent in the technical areas of preventive dentistry; four-handed dentistry; chairside assisting with emphasis in diagnostics, operative, fixed prosthodontics, pediatric dentistry, orthodontic procedures, endodontic procedures, surgical specialties, and expanded functions; dental practice management; and dental radiology.

Objectives

1. Provide current curriculum, instructional materials, and equipment (in accordance with available funding) which teach knowledge, skills, and attitudes appropriate to industry needs.

2. Provide educational facilities which foster learning and provide safe, healthy environments available and accessible to all students who can benefit from the program.

3. Provide academic instruction which supports effective learning within the program and which enhances professional performance on the job.

4. Provide employability skills which foster work attitudes and work habits that will enable graduates of the program to perform as good employees.

5. Nurture the desire for learning so that graduates will pursue their own continuing education as a lifelong endeavor.

6. Provide an educational atmosphere which promotes a positive self-image and a sense of personal well-being.

7. Provide education that fosters development of good safety habits.

8. Provide admission, educational, and placement services without regard to race, color, national origin, religion, sex, age, or handicapping condition.

9. Provide information to the public regarding the program that will facilitate recruitment and enrollment of students.

10. Promote good public relations via contacts and regular communications with business, industry, and the public sector.

11. Promote faculty and student rapport and communications to enhance student success in the program.

GENERAL INFORMATION

Program Description

Program Defined

The Dental Assisting accredited program prepares students for employment in a variety of positions in today's dental offices. The Dental Assisting program provides learning opportunities which introduce, develop, and reinforce academic and occupational knowledge, skills, and attitudes required for job acquisition, retention, and advancement. Additionally, the program provides opportunities to upgrade present knowledge and skills or to retrain in the area of dental assisting. Graduates of the program receive a Dental Assisting diploma and are eligible to sit for a national certification examination.

GENERAL INFORMATION

Program Description

Admissions

Admissions Requirements

Admission of new students to the Dental Assisting program is contingent upon their meeting all of the following requirements:

a) attainment of 17 or more years of age;
b) documentation of high school graduation or High School Equivalency Certificate requirements;
c) achievement of the 7th grade level in math and the 10th grade level in reading and English as shown on a statistically validated test; and
d) completion of application and related procedures.

Admission of transfer students is contingent upon their meeting the following:

a) regular admission and good standing at a regionally accredited diploma or degree granting institution; and
b) proper completion of application and related procedures.

Provisional admission

A new student who does not meet the regular admission requirements of the program may be admitted on a provisional basis. The requirements for provisional admission are:

a) attainment of 17 or more years of age;
b) achievement of the 6th grade level in math and 9th grade level in reading and English as shown on a statistically validated test or recommendation by program faculty and designated admissions personnel on the basis of interview and assessment of student potential; and
c) completion of application and related procedures.

GENERAL INFORMATION

Program Description

Typical Job Titles

The Dental Assisting program is assigned a (PGM) CIP code of (PGM) 17.0101 and is consistent with all other programs throughout the state which have the same (PGM) CIP code. The related D.O.T. job title follows.

079.371	Dental Assistant

GENERAL INFORMATION

Program Description

Accreditation and Certification

This program must conform to the institutional accreditation requirements of the Southern Association of Colleges and Schools by meeting Commission on Colleges (COC) or Commission on Occupational Education Institutions (COEI) accreditation requirements and must not conflict with the accreditation criteria established by COC and COEI.

This program must meet the requirements stated in the *Accreditation Standards for Dental Assisting Education Programs*.

Dental Assistants are certified by the Dental Assisting National Board. Students may sit for the national exam upon completion of the program.

GENERAL INFORMATION

Curriculum Model

Standard Curriculum

The standard curriculum for the Dental Assisting Program is set up on the quarter system. Four suggested sequences for the program are given below. Technical institutes may implement the Dental Assisting program using a sequence listed below or using a locally developed sequence designed to reflect course prerequisites and/or corequisites.

Course		Class Hours	Lab Hours	Weekly Contact Credits	Credits
SUGGESTED SEQUENCE I					
FIRST QUARTER					
DEN 101	Basic Human Biology	3	0	3	3
DEN 102	Head and Neck Anatomy	2	0	2	2
DEN 105	Microbiology and Infection Control	2	1	3	2
DEN 106	Oral Anatomy	5	0	5	5
DEN 110	Dental Assisting-Diagnostic	2	3	5	3
DEN 111	Dental Assisting-Operative	2	3	5	3
ENG 101	English	5	0	5	5
	Elective	-	-	-	5
		21	7	28	28

Course		Class Hours	Lab Hours	Weekly Contact Hours	Credits
SECOND QUARTER					
AHS 103	Nutrition and Diet Therapy	2	0	2	2
DEN 104	Preventive Dentistry	1	1	2	1
DEN 112	Dental Assisting-Fixed Prosthodontics	2	3	5	3
DEN 113	Dental Assisting-Specialties	2	3	5	3
DEN 118	Dental Radiology	3	2	5	3
DEN 120	Dental Practicum I	0	3	3	1
MAT 100	Basic Mathematics	3	0	3	3
PSY 101	Psychology	5	0	5	5
		18	12	30	21
THIRD QUARTER					
DEN 107	Oral Pathology and Therapeutics	4	0	4	4
DEN 114	Dental Assisting-Surgical Specialties	2	3	5	3
DEN 115	Dental Assisting-Expanded Functions	2	3	5	3
DEN 117	Dental Practice Management	4	4	8	5
DEN 121	Dental Practicum II	0	8	8	2
		12	18	30	17
FOURTH QUARTER					
DEN 108	Scopes of Professional Practice	3	0	3	3
DEN 122	Dental Practicum III	0	4	4	1
DEN 123	Dental Practicum IV	0	4	4	1
DEN 124	Dental Practicum V	0	8	8	2
DEN 125	Dental Practicum VI	0	8	8	2
DEN 126	Dental Practicum VII	0	8	8	2
		3	32	35	11

Course		Class Hours	Lab Hours	Weekly Contact Hours	Credits
SUGGESTED SEQUENCE II					
FIRST QUARTER					
DEN 105	Microbiology and Infection Control	2	1	3	2
DEN 106	Oral Anatomy	5	0	5	5
DEN 110	Dental Assisting-Diagnostic	2	3	5	3
DEN 111	Dental Assisting-Operative	2	3	5	3
DEN 112	Dental Assisting-Fixed Prosthodontics	2	3	5	3
DEN 120	Dental Practicum I	0	3	3	1
	Elective	-	-	-	5
		13	13	26	22
SECOND QUARTER					
DEN 101	Basic Human Biology	3	0	3	3
DEN 102	Head and Neck Anatomy	2	0	2	2
DEN 113	Dental Assisting Specialties	2	3	5	3
DEN 118	Dental Radiology	3	2	5	3
DEN 121	Dental Practicum II	0	8	8	2
DEN 122	Dental Practicum III	0	4	4	1
ENG 101	English	5	0	5	5
		15	17	32	19

Course		Class Hours	Lab Hours	Weekly Contact Hours	Credits
THIRD QUARTER					
DEN 107	Oral Pathology and Therapeutics	4	0	4	4
DEN 114	Dental Assisting-Surgical Specialties	2	3	5	3
DEN 115	Dental Assisting-Expanded Functions	2	3	5	3
DEN 123	Dental Practicum IV	0	4	4	1
DEN 124	Dental Practicum V	0	8	8	2
PSY 101	Psychology	5	0	5	5
		13	18	31	18
FOURTH QUARTER					
AHS 103	Nutrition and Diet Therapy	2	0	2	2
DEN 104	Preventive Dentistry	1	1	2	1
DEN 108	Scopes of Professional Practice	3	0	3	3
DEN 117	Dental Practice Management	4	4	8	5
DEN 125	Dental Practicum VI	0	8	8	2
DEN 126	Dental Practicum VII	0	8	8	2
MAT 100	Basic Mathematics	3	0	3	3
		13	21	34	18

Course		Class Hours	Lab Hours	Weekly Contact Hours	Credits
SUGGESTED SEQUENCE III					
FIRST QUARTER					
DEN 105	Microbiology and Infection Control	2	1	3	2
DEN 106	Oral Anatomy	5	0	5	5
DEN 110	Dental Assisting-Diagnostic	2	3	5	3
DEN 111	Dental Assisting-Operative	2	3	5	3
DEN 120	Dental Practicum I	0	3	3	1
	Elective	-	-	-	5
		11	10	21	19
SECOND QUARTER					
DEN 101	Basic Human Biology	3	0	3	3
DEN 102	Head and Neck Anatomy	2	0	2	2
DEN 112	Dental Assisting-Fixed Prosthodontics	2	3	5	3
DEN 118	Dental Radiology	3	2	5	3
DEN 121	Dental Practicum II	0	8	8	2
		10	13	23	13

Course		Class Hours	Lab Hours	Weekly Contact Hours	Credits
THIRD QUARTER					
DEN 113	Dental Assisting-Specialties	2	3	5	3
DEN 114	Dental Assisting-Surgical Specialties	2	3	5	3
DEN 122	Dental Practicum III	0	4	4	1
DEN 123	Dental Practicum IV	0	4	4	1
ENG 101	English	5	0	5	5
		9	14	23	13
FOURTH QUARTER					
AHS 103	Nutrition and Diet Therapy	2	0	2	2
DEN 104	Preventive Dentistry	1	1	2	1
DEN 107	Oral Pathology and Therapeutics	4	0	4	4
DEN 108	Scopes of Practice	3	0	3	3
DEN 124	Dental Practicum V	0	8	8	2
PSY 101	Psychology	5	0	5	5
		15	9	24	17
FIFTH QUARTER					
DEN 115	Dental Assisting-Expanded Functions	2	3	5	3
DEN 117	Dental Practice Management	4	4	8	5
DEN 125	Dental Practicum VI	0	8	8	2
DEN 126	Dental Practicum VII	0	8	8	2
MAT 100	Basic Mathematics	3	0	3	3
		9	23	32	15

Course		Class Hours	Lab Hours	Weekly Contact Hours	Credits
SUGGESTED SEQUENCE IV					
FIRST QUARTER					
AHS 103	Nutrition and Diet Therapy	2	0	2	2
DEN 101	Basic Human Biology	3	0	3	3
ENG 101	English	5	0	5	5
MAT 100	Basic Mathematics	3	0	3	3
PSY 101	Psychology	5	0	5	5
	Elective	-	-	-	5
		18	0	18	23
SECOND QUARTER					
DEN 102	Head and Neck Anatomy	2	0	2	2
DEN 105	Microbiology and Infection Control	2	1	3	2
DEN 106	Oral Anatomy	5	0	5	5
DEN 110	Dental Assisting-Diagnostic	2	3	5	3
DEN 111	Dental Assisting-Operative	2	3	5	3
DEN 120	Dental Practicum I	0	3	3	1
		13	10	23	16

Course		Class Hours	Lab Hours	Weekly Contact Hours	Credits
THIRD QUARTER					
DEN 104	Preventive Dentistry	1	1	2	1
DEN 112	Dental Assisting-Fixed Prosthodontics	2	3	5	3
DEN 113	Dental Assisting-Specialties	2	3	5	3
DEN 118	Dental Radiology	3	2	5	3
DEN 121	Dental Practicum II	0	8	8	2
		8	17	25	12
FOURTH QUARTER					
DEN 107	Oral Pathology and Therapeutics	4	0	4	4
DEN 114	Dental Assisting-Surgical Specialties	2	3	5	3
DEN 115	Dental Assisting-Expanded Functions	2	3	5	3
DEN 117	Dental Practice Management	4	4	8	5
DEN 122	Dental Practicum III	0	4	4	1
		12	14	26	16
FIFTH QUARTER					
DEN 108	Scopes of Professional Practice	3	0	3	3
DEN 123	Dental Practicum IV	0	4	4	1
DEN 124	Dental Practicum V	0	8	8	2
DEN 125	Dental Practicum VI	0	8	8	2
DEN 126	Dental Practicum VII	0	8	8	2
		3	28	31	10

GENERAL INFORMATION

Curriculum Model

General Core Courses

The general core courses provide students with a foundation in the basic skills which enable them to empress themselves more clearly, both orally and in writing, and to perform the mathematical functions required in this occupation. The general core courses for the Dental Assisting program are listed below.

ENG	101	English	5 Credits
MAT	100	Basic Mathematics	3 Credits
PSY	101	Psychology	5 Credits

GENERAL INFORMATION

Curriculum Model

Fundamental Occupational Courses

The fundamental occupational courses provide students with a foundation in the area of dental assisting which is needed to progress to the more highly specialized courses in dental assisting. The fundamental occupational courses are listed below.

AHS 103	Nutrition and Diet Therapy	2 Credits
DEN 101	Basic Human Biology	3 Credits
DEN 102	Head and Neck Anatomy	2 Credits
DEN 104	Preventive Dentistry	1 Credit
DEN 105	Microbiology and Infection Control	2 Credits
DEN 106	Oral Anatomy	5 Credits
DEN 107	Oral Pathology and Therapeutics	4 Credits
DEN 108	Scopes of Professional Practice	3 Credits

GENERAL INFORMATION

Curriculum Model

Specific Occupational Courses

The specific occupational courses build upon the occupational core courses to provide students with the basic knowledge and skill required to work as a dental assistant. The specific occupational courses offered in the dental assisting program are listed below.

DEN 110	Dental Assisting - Diagnostic	3 Credits
DEN 111	Dental Assisting - Operative	3 Credits
DEN 112	Dental Assisting - Fixed Prosthodontics	3 Credits
DEN 113	Dental Assisting - Specialties	3 Credits
DEN 114	Dental Assisting - Surgical Specialties	3 Credits
DEN 115	Dental Assisting - Expanded Functions	3 Credits
DEN 117	Dental Practice Management	5 Credits
DEN 118	Dental Radiology	3 Credits
DEN 120	Dental Practicum I	1 Credit
DEN 121	Dental Practicum II	2 Credits
DEN 122	Dental Practicum III	1 Credit
DEN 123	Dental Practicum IV	1 Credit
DEN 124	Dental Practicum V	2 Credits
DEN 125	Dental Practicum VI	2 Credits
DEN 126	Dental Practicum VII	2 Credits
	Occupational or Occupationally Related Electives	3 Credits

GENERAL INFORMATION

Curriculum Model

Electives

Elective courses are provided to allow for the different levels of prior knowledge and skills brought to the classroom by students with diverse backgrounds, educational attainment and specialized interests.

Decisions regarding the selection and appropriateness of any elective are made by the student after consultation with the instructor. Courses from other departments may be taken as electives when considered appropriate for a student's academic circumstances and career goals.

GENERAL CORE

ENG 101 - English

Course Overview

Course Description

Emphasizes the development and improvement of written and oral communication abilities. Topics include: analysis of writing techniques used in selected readings, writing practice, editing and proofreading, research skills, and oral presentation skills. Homework assignments reinforce classroom learning.

Competency Areas

Analysis of Writing Techniques
Used in Selected Readings
Writing Practice
Editing and Proofreading
Research Skills
Oral Presentation Skills

Prerequisite

Program admission level English and reading competency

Credit Hours

5

Contact Hours Per Week

Class - 5

Lab - 0

GENERAL CORE

ENG 101 - English

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
ANALYSIS OF WRITING TECHNIQUES USED IN SELECTED READINGS		**10**	**0**
Review and analysis of various writing techniques	Read and analyze writing to identify subject and focus. Read and analyze writing to identify supporting information. Read and analyze writing to identify patterns of development, such as time, space, climax, example, process, instructions, definition, comparison/ contrast, cause and effect, classification, and problem-solving.		
WRITING PRACTICE		**20**	**0**
Review of grammar fundamentals	Produce logically organized, grammatically acceptable writing.		
Review of composition fundamentals	Compose a variety of paragraphs, reports, memorandums, and business letters. Demonstrate listening skills by following directions for writing assignments.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
EDITING AND PROOFREADING		**10**	**0**
Review of editing fundamentals	Revise to improve ideas, style, organization, and format, preferably with word processing. Edit to improve grammar, mechanics, and spelling.		
RESEARCH SKILLS		**5**	**0**
Resource materials location and utilization	Utilize library resources to enhance writing.		
ORAL PRESENTATION SKILLS		**5**	**0**
Types of oral presentation participation	Participate in class discussion, small group discussion, and/or individual presentations.		
Role of the listener	Participate as an active listener.		

GENERAL CORE

ENG 101 - English

Resources

Lewis, S. D., Smith, H., Baker, F., Ellegood, G., Kopay, C., & Tanzer, W. (1988). *Writing skills for technical students* (2nd ed.). Englewood Cliffs, NJ: Prentice Hall.

VanAlstyne, J. S. (1986). *Professional and technical writing strategies*. Englewood Cliffs, NJ: Prentice Hall.

GENERAL CORE

MAT 100 - Basic Mathematics

Course Overview

Course Description

Emphasizes basic mathematical concepts. Topics include: mathematical operations with whole numbers, fractions, decimals, percents, ratio/proportion, and measurement using common English and metric units. Class includes lecture, applications, and homework to reinforce learning.

Competency Areas

Mathematical Operations
Fractions
Decimals
Percents
Ratio and Proportion
Measurement and Conversion

Prerequisite

Program admission level math competency

Credit Hours

3

Contact Hours Per Week

Class - 3

Lab - 0

GENERAL CORE

MAT 100 - Basic Mathematics

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Lab
MATHEMATICAL OPERATIONS		**4**	**0**
Addition	Solve whole number problems using basic mathematical skills.		
Subtraction			
Multiplication			
Division			
Symbols	Recognize symbols and groupings and use them to solve hierarchy of operations problems with whole numbers.		
Order of operations			
Properties			
FRACTIONS		**11**	**0**
Definition of fractions	Define fractions.		
	Identify proper and improper fractions.		
Equivalent fractions			
Greatest common divisor (GCD)			

Recommended Outline	After completing this section, the student will:	Hours Class	Lab
Basic operations using fractions	Solve fraction problems using basic multiplication, division, addition, and subtraction operations.		
DECIMALS		3	0
Definition of decimals and place value			
Basic operations of mathematics with decimals	Solve mathematical problems using decimals.		
Round-off procedures			
Conversion of fractions to decimals and decimals to fractions	Recognize the relationship between fractions and decimals.		
PERCENTS		3	0
Definition	Solve problems using percents.		
Fractions, decimals and percents			
Base-rate-part problems	Demonstrate skill in solving base rate percent problems.		
RATIO AND PROPORTION		6	0
Definition of ratio, rates, and proportions	Construct and solve problems involving ratios and proportions.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
MEASUREMENTS AND CONVERSION		**3**	**0**
Define base units of length, area, volume, weight, temperature, and time	Determine proper dimensions. Solve basic measurement problems. Convert units within basic systems. Convert between English and metric systems.		

GENERAL CORE

MAT 100 - Basic Mathematics

Resources

Harter, J. H., & Beitzel, W. D. (1988). *Mathematics applied to electronic* (3rd ed.). Englewood Cliffs, NJ: Prentice Hall.

Heywood, A. (1982). *Arithmetic: A programmed worktext.* Monterey, CA: Brooks/Cole.

Johnston, C. L., Willis, A. T., & Hughes, G. M. (1984). *Essential arithmetic* (4th ed.). Belmont, CA: Wadsworth.

Keedy, M. L., & Bittinger, M. L. (1983). *Introductory algebra* (4th ed.). Perdue, IN: Addison-Wesley.

Keedy, M. L., & Bittinger, M. L. (1985). *Essential mathematics* (4th ed.). Perdue, IN: Addison-Wesley.

Lewis, H. (1986). *Technical mathematics.* Albany, NY: Delmar.

Palmer, C. L., & Rachek, L. A. (1986). *Practical mathematics* (7th ed.). Minneapolis: McGraw-Hill.

Proga, R. (1987). *Basic mathematics* (2nd ed.). Boston: Prindle, Weber & Schmidt.

Washington, A. J., & Triola, M. F. (1984). *Technical mathematics* (3rd ed.). Poughkeepsie, NY: Benjamin/Cummings.

GENERAL CORE

PSY 101 - Psychology

Course Overview

Course Description

Emphasizes the basics of human psychology and individual and group behavior. Topics include: social environments, career development, communications and group processes, case problems, and typical relationships.

Competency Areas

Career Development
Social Environments
Communications and Group Processes
Personality
Emotions/Motives
Conflicts/Stress/Anxiety
Perception and Learning

Prerequisite

Provisional admission

Credit Hours

5

Contact Hours per Week

Class - 5

Lab - 0

GENERAL CORE

PSY 101 - Psychology

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
CAREER DEVELOPMENT		**7**	**0**
Career goals	Develop strategies for career goals.		
Self-knowledge	Identify personal strengths and weaknesses.		
Organizational environment/corporate culture	Identify potential catalysts and barriers to career enhancement.		
	Develop strategies for discerning corporate culture.		
SOCIAL ENVIRONMENTS		**12**	**0**
Primary relationships	Identify influences of primary relationships.		
Secondary relationships	Identify influences of secondary relationships.		
Rules	Explain/demonstrate rules for human interaction.		
Roles	Identify/explain societal roles and expectations.		
Affiliation	Explain/demonstrate principles of group inclusion.		

Recommended Outline	After completing this section, the student will:	Hours Class	Lab
COMMUNICATIONS AND GROUP PROCESSES		**13**	**0**
Communications process	Identify/demonstrate the communication process.		
Communication components	Identify communication components.		
Non-verbal agenda	Identify/demonstrate nonverbal cues.		
Communication barriers	Develop strategies to overcome communication barriers.		
Listening	Demonstrate active listening skills.		
Member roles in groups	Determine/perform member roles in groups.		
Leader roles in groups	Determine/perform leader roles in groups.		
PERSONALITY		**3**	**0**
Personality theories	Describe/evaluate personality theories and disorders.		
Types and temperaments	Identify personality types and temperaments.		
	Assess own personality type and temperament.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
EMOTIONS/MOTIVES		**5**	**0**
Theories of emotions	Identify/evaluate theories of emotions.		
Classification for emotions	Illustrate/identify emotions by facial expression, vocal tone, nonverbal cues, etc.		
Physiological motives	Explain physiological motives.		
Psychological motives	Explain psychological motives.		
CONFLICTS/STRESS/ANXIETY		**6**	**0**
Conflict potential	Assess conflict potential in personal/professional relationships.		
Conflict management	Demonstrate strategies to handle conflict effectively.		
Stress causing factors	Cite stress causing factors.		
Stress tolerance/coping	Diagnose personal tolerance.		
	Plan stress coping techniques.		
State/trait anxiety	Identify/explain different anxiety dimensions.		
PERCEPTION AND LEARNING		**4**	**0**
Perception process	Identify/explain perception process.		
Perception and reality	Demonstrate perception-reality principles.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
Cognitive view of learning	Identify cognitive view of learning.		
Information processing	Explain information processing.		
Learning and reinforcement	Explain positive and negative reinforcement.		

GENERAL CORE

PSY 101 - Psychology

Resources

Baltus, R. K. (1983). *Personal psychology for life and work* (2nd ed.). New York: McGraw-Hill.

Beck, R. C. (1982). *Applying psychology: Understanding people.* Englewood Cliffs, NJ: Prentice-Hall.

Bernstein, D. A., Joy, E. J., Scruss, T. K., & Wilkens, C. D. (1988). *Psychology.* Boston: Houghton Mifflin.

Dworetzky, J. P. (1988). *Psychology* (3rd ed.). St. Paul: West.

Houston, J. P., et al. (1981). *Essentials of psychology.* New York: Academic Press.

Kagan, J. & Segal, J. (1988). *Psychology -- An introduction* (6th ed.). San Diego: Harcourt, Brace & Jovanovich.

FUNDAMENTAL OCCUPATIONAL

AHS 103 - Nutrition And Diet Therapy

Course Overview

Course Description

A study of the nutritional needs of the individual. Topics include: basic nutrients, food sources, the role nutrition plays in the maintenance of health for the individual, and using diet to treat certain pathologic conditions.

Competency Areas

Nutrients
Standard and Modified Diets

Prerequisite

Provisional admission

Credit Hours

2

Contact Hours Per Week

Class - 2

Lab - 0

FUNDAMENTAL OCCUPATIONAL

AHS 103 - Nutrition And Diet Therapy

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
NUTRIENTS		**17**	**0**
Introduction to diet	Identify the four good groups and the daily amounts needed.		
	Know the source and functions of foods and nutrients in maintaining good health.		
	Recognize food fallacies.		
	Describe the clinical signs of good nutritional status.		
Energy requirements	Identify the energy producing nutrients and state their fuel value.		
	Calculate the energy needs of an individual based on age, sex, and health status.		
	Discuss the results of over or under consumption of kilo calories.		
Carbohydrates	Identify the functions, sources, RDA, and classifications of carbohydrates.		
	Define fiber and list its function and food source.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
Fats	Identify the functions, sources, RDA, and classification of fats.		
	Explain the difference between saturated and unsaturated fatty acids, and identify their food sources.		
Protein	Identify the functions, structure, sources, RDA, and classifications of protein.		
	Compare the effects on health of inadequate or excessive protein intake.		
Vitamins	Discuss the general functions and classifications of vitamins.		
Fat and water soluble vitamins	Identify the functions, sources, RDA, and deficiencies of fat and water soluble vitamins.		
Minerals	Identify the function, sources, RDA, and deficiency states of both major and trace minerals.		
Water balance	Discuss the function, requirements, movement, and distribution of water in the body.		
Digestion and absorption	Describe mechanical and chemical digestion.		
	Route the pathway of nutrients and the digestive process that occur in the mouth, stomach, small intestines, and large intestines.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
Nutrition for various age groups	Identify the nutritional needs for the infant, child, pregnant, lactating, and aged individual.		
Planning and preparing menus	Develop a menu that includes variety and is nutritionally balanced.		
	Demonstrate an understanding of food habits and cultural diversity by altering a standard diet to accommodate the individual's preference.		
	Describe the appropriate methods for handling, storing, processing, and preparing food to conserve nutrients.		
STANDARD AND MODIFIED DIETS		**3**	**0**
	Define the principles of diet therapy.		
	Explain the objectives of diet therapy.		
	Describe the methods used to adapt a normal diet to treat a patients specific clinical condition.		
	Identify general and special diets.		
	Utilize the knowledge of diet therapy and aesthetically and correctly arrange and serve the correct diet to the appropriate person.		

FUNDAMENTAL OCCUPATIONAL

AHS 103 - Nutrition And Diet Therapy

Resources

Feldman, E. B. (1988). *Essentials of clinical nutrition*. Philadelphia: F. A. Davis.

Holman, S. R. (1987). *Essentials of nutrition for the health professional*. Philadelphia: J. B. Lippincott.

Kerschner, V. L. (1988). *Nutrition and diet therapy*. Philadelphia: F. A. Davis.

Landsford, T. R., & Jacobs-Steward, P. M. (1986). *Foundations of normal and therapeutic nutrition*. New York: John Wiley and Sons.

Lewis, C. M. (1984). *Basic and family nutrition: A self-instructional approach*. Philadelphia: F. A. Davis.

Rosdahl, C. B. (1985). *Textbook for basic nursing*. Philadelphia: J. B. Lippincott.

Stanfield, P. (1986). *Nutrition and diet therapy: Self instruction modules*. Boston: James & Barlett.

Townsend, C. E. (1985). *Nutrition and diet therapy*. Albany: Delmar.

Williams, S. R. (1984). *Essential nutrition and diet therapy*. St. Louis: C. V. Mosby.

Williams, S. R. (1985). *Mowry's basic nutrition and diet therapy*. St. Louis: C. V. Mosby.

Williams, S. R. (1986). *Basic nutrition and diet therapy*. St. Louis: C. V. Mosby.

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03-02-01

FUNDAMENTAL OCCUPATIONAL

DEN 101 - Basic Human Biology

Course Overview

Course Description

Focuses on basic normal structure and function of the human body with an emphasis on organ systems. Topics include: a basic study of cells and tissues, an overview of each body system and its principle organs, the body's homeostatic mechanisms, and medical terminology as it relates to the normal human body.

Competency Areas

Medical Terminology as it Relates to the
Normal Human Body
Normal Structure and Function of the Human Body
Cells and Tissues Organs and Systems, and
Homeostatic Mechanisms

Prerequisite

Provisional admission

Credit Hours

3

Contact Hours Per Week

Class - 3

Lab - 0

FUNDAMENTAL OCCUPATIONAL

DEN 101 - Basic Human Biology

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
MEDICAL TERMINOLOGY AS IT RELATES TO THE NORMAL HUMAN BODY		**15**	**0**
Basic and descriptive terminology	Define the terms anatomy and physiology. Explain the meaning of the term homeostasis and give an example of a typical homeostatic mechanism. Identify and explain the terms used in describing normal gross human anatomy.		
Terminology of cellular structure and function	Identify and explain the terms used in describing normal cellular anatomy and cell function.		
Terminology of tissue structure and function	Identify and explain the terms used in describing the anatomy and physiology of epithelial, connective, muscle, and nervous tissues.		
Terminology of a specific organ system's and function	Identify and explain the terms used in describing the normal anatomy and physiology of these specific organ systems: skeletal, muscular, nervous, endocrine, circulatory, urinary, digestive, respiratory, and reproductive.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
NORMAL STRUCTURE AND FUNCTION OF THE HUMAN BODY - CELLS AND TISSUES, ORGANS AND SYSTEMS, AND HOMEOSTATIC MECHANISMS		**15**	**0**
Cells and tissues	Identify and describe the normal anatomy of cells.		
	Explain the normal function of cells in homeostasis and reproduction.		
	Identify and describe the normal anatomy of the four major tissue types.		
Organ systems of the body	Identify and describe the normal anatomy of these specific organ systems: integumentary, skeletal, muscular, nervous, endocrine, circulatory, urinary, digestive, respiratory, and reproductive.		
Homeostatic mechanisms	Explain the normal function of the principle and accessory organs of each system in maintaining homeostasis.		

FUNDAMENTAL OCCUPATIONAL

DEN 101 - Basic Human Biology

Resources

Ehrlich, A. (1988). *Medical terminology for health professions.* Albany, NY: Delmar.

Thibodeau, G. A., & Anthony, C. P. (1988). *Structure and function of the body* (8th ed.). St. Louis: Times Mirror/Mosby.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W. B. Saunders.

Audiovisuals

"The Body Human: Red River"	3/4 videotape
"I am Joe's Heart"	3/4 videotape
"I am Joe's Lung"	3/4 videotape
"I am Joe's Spine"	3/4 videotape
"I am Joe's Stomach"	3/4 videotape
"The Body Human: The Vital Connection"	3/4 videotape

Trainex Corporation
P. O. Box 116
Garden Grove, CA 92642

Anatomy and Physiology -35 mm Slide Training Program
11 sets of Slides

Robert J. Brady Company
Bowie, MD 20715

Vaughn, D. (1981). *The Dean Vaughn learning system applied to dental terminology* (1st ed.). Westwood, MA: Damon Instructional Systems Division.

FUNDAMENTAL OCCUPATIONAL

DEN 102 - Head And Neck Anatomy

Course Overview

Course Description

Focuses on normal head and neck anatomy. Topics include: osteology of the skull, muscles of mastication and facial expression, temporal mandibular joint, arterial and nerve supply of the head, and salivary glands and related structures.

Competency Areas

Osteology of the Skull
Muscles of Mastication and Facial Expression
Temporal Mandibular Joint
Arterial and Nerve Supply of the Head
Salivary Glands and Related Structures

Prerequisite

Provisional admission

Credit Hours

2

Contact Hours Per Week

Lab - 0

Class - 2

FUNDAMENTAL OCCUPATIONAL

DEN 102 - Head And Neck Anatomy

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
OSTEOLOGY OF THE SKULL		**5**	**0**
Bones of the cranium and face	Identify and label bones and landmarks of the face and cranium.		
MUSCLES OF MASTICATION AND FACIAL EXPRESSION		**3**	**0**
Associated terminology	Define terms related to muscle structure and function. Identify and label muscles of mastication and facial expression.		
TEMPORAL MANDIBULAR JOINT		**2**	**0**
Structure and function of temporal mandibular joint	Identify and label the parts of the temporomandibular joint. Describe the function of the temporomandibular joint. Describe problems related to the temporomandibular joint.		

FUNDAMENTAL OCCUPATIONAL

DEN 102 - Head And Neck Anatomy

Resources

Leimone, C. A., & Earl, E. M. (1988). *Dental assisting: Basic and dental sciences.* St. Louis: C. V. Mosby.

Short, M. J. (1987). *Essential anatomies: Oral and head/neck.* Albany, NY: Delmar.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W. B. Saunders.

Audiovisuals

"Bones of the Head and Neck - Part I"	Slides
"Bones of the Head and Neck - Part II"	Slides

National Medical Audiovisual Center
General Services Administration
Washington, DC 20409

FUNDAMENTAL OCCUPATIONAL

DEN 104 - Preventive Dentistry

Course Overview

Course Description

Provides students with theory and clinical experience in the area of preventive and public health dentistry. Topics include: etiology of dental disease (e.g., caries, periodontal disease); patient education techniques; plaque control techniques; types, use, and application of fluoride; diet analysis for caries control; and oral prophylaxis procedures.

Competency Areas

Etiology of Dental Disease
Patient Education Techniques
Plaque Control Techniques
Types, Use, and Application of Fluoride
Diet Analysis for Caries Control
Oral Prophylaxis Procedures

Prerequisite

Program admission

Corequisite

AHS 103

Credit Hours

1

Contact Hours Per Week

Class - 1

P.Lab - 1

FUNDAMENTAL OCCUPATIONAL

DEN 104 - Preventive Dentistry

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Lab
ETIOLOGY OF DENTAL DISEASE		**2**	**0**
Diseases of the oral cavity	Common disease that have manifestations in the mouth. Clinical manifestations of the inflammatory process. Pathological conditions. Degenerative diseases of the oral tissues.		
Hygiene problems	Dental hygiene-related problems.		
PATIENT EDUCATION TECHNIQUES		**2**	**2**
Oral health instructions	Provide patient with dental health education presentations on topics such as: functions of the primary and permanent teeth and the relationship of the supporting structures, function of the gingiva and the clinical signs of healthy gingiva, predisposing factors for gingival diseases, and the disease of the periodontium.		
Individual instructions	Explain the procedures and services being delivered to the patient and/or family.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
PLAQUE CONTROL TECHNIQUES		**2**	**2**
Motivation	Evaluate the patient's oral health care status and habits.		
Toothbrushing techniques	Instruct the patient in various techniques of toothbrushing.		
Aids	Describe implements used for mechanical control of bacterial plaque such as: floss, disclosing agents, stimulators, and other special aids.		
Reinforcement	Evaluate the patient's progress in and response to home-care therapy.		
TYPES, USE, AND APPLICATION OF FLUORIDE		**2**	**2**
Fluoride	Explain to the patient the relationship of fluoride in controlling caries.		
Types and techniques	Identify the types of fluorides and rinses.		
	Selecting acceptable effective fluoride products.		
	Prepare and use the correct technique for either method of applying fluoride.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
Patient instruction	Instruct patient for the proper care of the mouth after application.		
Armamentarium	Select and prepare the armamentarium necessary for the application of fluoride.		
Isolation techniques	Maintain field of operation through the use of retraction, suction, and drying.		
	Place and remove cotton rolls.		
	Assist with and/or apply fluoride.		
DIET ANALYSIS FOR CARIES CONTROL		**1**	**2**
Promotion of caries	Describe how carbohydrates and plaque promote caries.		
Diet diary	Conduct a dietary assessment for a patient.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
ORAL PROPHYLAXIS PROCEDURES		**1**	**2**
Armamentarium	Select and prepare tray set-up and all necessary armamentarium.		
Isolation techniques	Maintain field of operation through the use of retraction, suction, irrigation and drying.		
	Assist with polishing the teeth.		
	Identify and exchange rotary instruments in dental handpieces.		
Patient management	Demonstrate ability to calm and reassure patients with special needs and problems.		
	Employ the principles of patient management during clinical procedures.		

FUNDAMENTAL OCCUPATIONAL

DEN 104 - Preventive Dentistry

Resources

Chasteen, J. E. (1989). *Essential of clinical dental assisting* (4th ed.). St. Louis: C. V. Mosby.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W. B. Saunders.

Audiovisuals

"Preventing Dental Disease - Your Smile: Passport to Good Times"

American Dental Association
Chicago, IL

"Patient Education - to Have and to Hold"	1/2 videotape
"Patient Education - Truth or Consequences"	1/2 videotape
"Patient Education - Not by Chance"	1/2 videotape
"Patient Education - Don't Fiddle Around"	1/2 videotape

Video Education Company of America
15 Boylston Place
Brookline. MA 02146

Document Number:
03-05-01

FUNDAMENTAL OCCUPATIONAL

DEN 105 - Microbiology And Infection Control

Course Overview

Course Description

Introduces fundamental microbiology and infection control techniques. Topics include: classification, structure, and behavior of pathogenic microbes; mode of disease transmission; body defense and immunity; infectious diseases; sterilization/disinfection; barrier techniques; disposal of biomedical waste; handwashing; biological and chemical monitoring; CDC, ADA, and OSHA guidelines for infection control.

Competency Areas

Classification, Structure, and
Behavior of Pathogenic Microbes
Mode of Disease Transmission
Body's Defense and Immunity
Infectious Diseases
Infection Control Procedures
CDC, ADA, and OSHA Guidelines
for Infection Control

Prerequisite

Provisional admission

Credit Hours

2

Contact Hours Per Week

Class - 2

P.Lab - 1

Document Number:
03-05-02

FUNDAMENTAL OCCUPATIONAL

DEN 105 - Microbiology And Infection Control

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
CLASSIFICATION, STRUCTURE, AND BEHAVIOR OF PATHOGENIC MICROBES		**6**	**0**
Classes of microorganisms	Describe the different classifications of microorganisms and identify the structure of each.		
MODE OF DISEASE TRANSMISSION		**1**	**0**
Disease transmission	Identify the modes of disease transmission and procedures required to prevent and/or minimize the transmission of disease in the dental office.		
Human resistance	Explain the relationship between disease and host resistance.		
BODY'S DEFENSE AND IMMUNITY		**2**	**0**
Immunity	Discuss the concept of normal flora and portions of the body supporting a normal flora.		
	Identify and discuss specific and nonspecific internal defense mechanisms.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
INFECTIOUS DISEASES		**5**	**0**
	Differentiate between innate and acquired immunity.		
	Describe the allergic immune response.		
Hard tissue disorder	Identify the role of S. mutants and Lactobacilli in dental caries.		
Soft tissue disorder	Describe acute and chronic gingivitis and the predominant microorganisms though to be important in its initiation.		
Secondary system disorders	Describe the clinical presentation of acute necrotizing ulcerative gingivitis (ANUG) and the microorganisms in adult periodontal disease.		
Viral system disorders	Differentiate between oral bacterial systemic disease with oral manifestations to include tuberculosis, syphilis, gonorrhea, candidiasis.		
	Differentiate between viral systemic diseases to include herpes viruses, hepatitis, AIDS.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
INFECTION CONTROL PROCEDURES		**4**	**6**
Maintaining an aseptic environment	Maintain aseptic conditions for dental operating equipment, clinical areas, and storage areas.		
Associated terminology	Differentiate between sanitization, infection, and sterilization.		
Cross-contamination prevention	Prevent cross-contamination and disease-transmission at chairside by using hygiene and barrier techniques.		
	Prepare antiseptic and germicidal agents.		
Chemical disinfection	Implement the appropriate method of disinfection/sanitization for dental instruments, equipment, and supplies.		
Mechanical sterilization	Implement the appropriate methods of sterilization for dental instruments and supplies.		
Instrument storage	Store all instruments providing asepsis.		
	Perform a surgical scrub.		
Prevention of Hepatitis B	Describe the use of vaccination for the prevention of Hepatitis B.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
CDC, ADA, AND OSHA GUIDELINES FOR INFECTION CONTROL		**2**	**4**
Infection control guidelines	Identify and describe the Centers for Disease Control and American Dental Association guidelines for infection control in the dental office. Describe the role of OSHA in enforcing these infection control procedures.		
Infection control procedures	Perform infection control procedures according to the Centers for Disease Control and American Dental Association guidelines in the dental environment.		

FUNDAMENTAL OCCUPATIONAL

DEN 105 - Microbiology And Infection Control

Resources

Ehrlich, A. (1988) *Fundamentals III*. Champaign, IL: Colwell.

Leimone, C. A., & Earl, E. M. (1988). *Dental Assisting: Basic and dental sciences*. St. Louis: C. V. Mosby.

Torres, H. O., & Ehrlich A. (1989) *Modern dental assisting* (4th ed). Philadelphia: W. B. Saunders.

Audiovisuals

"Prevention of Cross Contamination" 3/4 videotape
"What If the Patient Has Aids" 3/4 videotape

National Audiovisual Center
8700 Edgeworth Drive
Capitol Heights, MD 20743-3701

"Oral Sepsis" 16 mm Film

American Dental Association
211 East Chicago Avenue
Chicago, IL 60611

"What if Saliva were Red?" 3/4 videotape

University of Pittsburgh
School of Medicine
Pittsburgh, PA 15261

FUNDAMENTAL OCCUPATIONAL

DEN 106 - Oral Anatomy

Course Overview

Course Description

Focuses on the development and functions of oral anatomy. Topics include: dental anatomy, oral histology, and oral embryology.

Competency Areas

Dental Anatomy
Oral Histology
Oral Embryology

Prerequisite

Program admission

Credit Hours

5

Contact Hours Per Week

Class - 5

Lab - 0

FUNDAMENTAL OCCUPATIONAL

DEN 106 - Oral Anatomy

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
DENTAL ANATOMY		**40**	**0**
Tooth structures	Identify the different tissues that comprise teeth.		
Surfaces and landmarks	Identify the surfaces and anatomical landmarks of teeth.		
Attachment apparatus	Describe the supporting structures of the teeth.		
Numbering systems	Classify all of the deciduous and permanent teeth according to the universal, palmer notation, and F.D.I. systems and anatomical locations and descriptions and relate this knowledge to clinical application.		
Associated terminology	Identify basic terminology and nomenclature relating to specific morphological characteristics of deciduous and permanent teeth.		
Primary and permanent dentition	Identify teeth according to their dentition, arch, and tooth.		
Tooth migration	Differentiate between occlusal trauma and mesial drift.		
	Relate the role of proper tooth contour to health and disease.		

Recommended Outline	After completing this section, the student will:	Hours Class	Lab
ORAL HISTOLOGY		**5**	**0**
Tooth development	Identify the chemical composition of all tooth structures and their developmental cell.		
	Describe the development of regular, secondary and reparative dentin.		
	Identify abnormalities in dentin and enamel.		
Disturbance in dental development	Differentiate between acellular and cellular cementum.		
	Define Sharpey's fibers.		
Alveolar process	Identify the layers of alveolar bone.		
Periodontal ligament	Differentiate between the various periodontal fiber groups and their functions.		
Bone resportion and apposition	Describe what causes bone resportion and apposition.		
ORAL EMBRYOLOGY		**5**	**0**
Embryonic development	List the embryonic structures that form the face and discuss the approximate embryonic age of formation.		
	Name the structures that form the palate and the weeks the plate fuses.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
The growth period	Name the embryonic structures involved in the development of cleft palate and lip. Differentiate between the bud stage, cap stage, and bell state. Define dental lamina. Differentiate between dental papilla and dental sac.		

FUNDAMENTAL OCCUPATIONAL

DEN 106 - Oral Anatomy

Resources

Isselhard, D. E., & Brand, R. (1986). *Anatomy of oral facial structures*. St. Louis: C. V. Mosby.

Leimone, C. A., & Earl, E. M. (1988). *Dental assisting: Basic and dental sciences*. St. Louis: C. V. Mosby.

Short, M. J. (1987). *Essential anatomies: Oral and head/neck*. Albany, NY: Delmar.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W. B. Saunders.

Audiovisuals

"Dental Anatomy - Programs 1 - 10" — 3/4 videotape

University of Alabama
School of Dentistry
Dental Television
University Station
Birmingham, AL 35294

"Oral Landmarks" — Slide/Tape

Teachers College Press
Teachers College
Columbia University
New York, NY 10027

Lower Left Jaw-AM-124 — Model

Nystrom
3333 Elston Avenue
Chicago, IL 60618

Resources

Deciduous Teeth Jaw Nystrom 3333 Elston Avenue Chicago, IL 60618	Model
Columbia Dentoform - Sm-PVR-660 Columbia Dentoform Corporation 22-19 41st Street Long Island City, NY 11101	Model
Kilgore Dental Study Models - Individual Teeth Models Model C - 12 A.T. 1A Kilgore International 36 West Pearl Street Coldwater, MI 49036	Models
Big Tooth Models Tanaka Dental Products 5135 Golf Road Skokie, Il 60077	Models
Individual Epoxy Teeth Models K-EPB-990 Columbia Dentoform Corporation 22-19 41st Street Long Island City, NY 11101	Models

FUNDAMENTAL OCCUPATIONAL

DEN 107 - Oral Pathology And Therapeutics

Course Overview

Course Description

Focuses on the diseases affecting the oral cavity and pharmacology as it relates to dentistry. Topics include: identification and disease process, signs/symptoms of oral diseases, recognition of systemic diseases, abnormalities of oral tissues, drug classification, dosage and administration of drugs, DEA regulations, and adverse reactions.

Competency Areas

Identification and Disease Process
Signs/Symptoms of Oral Diseases
Recognition of Systemic Diseases
Abnormalities of Oral Tissues
Drug Classification
Dosage and Administration of Drugs
DEA Regulations
Adverse Reactions

Prerequisite

Program admission

Credit Hours

4

Contact Hours Per Week

Class - 4

Lab - 0

FUNDAMENTAL OCCUPATIONAL

DEN 107 - Oral Pathology And Therapeutics

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Lab
IDENTIFICATION AND DISEASE PROCESS		**3**	**0**
Inflammation	Describe inflammation and repair of the tissues of the body. Relate how disease in the various body organs can have a direct or indirect effect on oral tissues.		
Biopsy	Discuss the purpose of and the general procedures for performing biopsies. Prepare for and assist with the collection of diagnostic data, such as biopsies, pulp tests, cytologic smears, and photographs.		
SIGNS/SYMPTOMS OF ORAL DISEASES		**4**	**0**
Abnormalities of the oral cavity	Discuss the etiology, pathogenesis, and clinical features of common diseases and abnormalities of the oral cavity.		
Treatment	Describe the basic treatment and prognosis of common oral diseases and abnormalities.		

Recommended Outline	After completing this section, the student will:	Hours Class	Lab
RECOGNITION OF DISEASES		**3**	**0**
Systemic diseases	Describe systemic diseases that have oral manifestations influencing the care of the dental patient. Assist with the assessment of patient's general physical condition including skin, gait, etc. and record any abnormal characteristics.		
ABNORMALITIES OF ORAL TISSUES		**10**	**0**
Developmental disturbances	Discuss and identify the pathologic conditions and developmental disturbances that are manifested in the oral tissues. Assist with the recording of any abnormal findings in the oral cavity.		
DRUG CLASSIFICATION		**3**	**0**
Classes of drugs	Recognize the various classification of drugs.		
Publications	Use recognized publications, such as the PDR, in ascertaining the actions and side effects of medications.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
DOSAGE AND ADMINISTRATION OF DRUGS		**8**	**0**
Effects of drugs	Describe the actions and effects of drugs on patients in the clinical setting.		
Record data	Record treatment and prescriptions (e.g. medication, instructions) on patient's chart.		
	Recognize present treatment and/or medication.		
DEA REGULATIONS		**1**	**0**
Writing a prescription	Describe the laws governing the use and dispensing of drugs and be able to write a prescription dictated by a dentist, using recognized form and symbols.		
ADVERSE REACTIONS		**8**	**0**
Health histories	Recognize the importance of questioning patients about medications they may be taking or medications listed in patient's health histories.		
Emergencies	Recognize the potential emergencies that could occur from medication use.		

FUNDAMENTAL OCCUPATIONAL

DEN 107 - Oral Pathology And Therapeutics

Resources

Ciancio, S. D., & Bourgault, P. (1989). *Clinical pharmacology for dental professionals* (3rd ed.). Littleton, MA: PSG.

Leimone, C. A., & Earl, E. M. (1988). *Dental assisting: Basic and dental sciences.* St. Louis: C. V. Mosby.

Robinson, B. G., & Miller, A. S. (1982). *Colby, Kerr, and Robinson's color atlas of oral pathology* (4th ed.). Philadelphia: Lippincott.

Shafer, W. G., Hine, M. K., & Levy, B. M. (1983). *A textbook of oral pathology* (4th ed.). Philadelphia: W. B. Saunders.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.) Philadelphia: W. B. Saunders.

Audiovisuals

"Oral Biopsy Procedure" 3/4 videotape

National Audiovisual Center
General Services Administration
Washington, DC 20409

FUNDAMENTAL OCCUPATIONAL

DEN 108 - Scopes Of Professional Practice

Course Overview

Course Description

Focuses on ethics, jurisprudence, and employability skills for the dental assistant. Students will relate integration of didactic and laboratory instruction with clinical experiences. Topics include: ethics and jurisprudence related to the dental office, employability skills, and problem-solving as related to the clinical environment.

Competency Areas

Ethics and Jurisprudence Related
to the Dental Office
Employability Skills
Problem-Solving as Related to
the Clinical Environment

Prerequisite

Program admission

Credit Hours

3

Contact Hours Per Week

Lab - 0

Class - 3

FUNDAMENTAL OCCUPATIONAL

DEN 108 - Scopes Of Professional Practice

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
ETHICS AND JURISPRUDENCE RELATED TO THE DENTAL OFFICE		**10**	**0**
Personal integrity	Enhances self respect.		
	Develop personal integrity and integrity in relationships.		
	Serve all patients without discrimination.		
Educational needs	Meet educational and/or experience requirement for performing all functions.		
Professional organizations	Recognize professional organizations in the dental field and their role in ethics and jurisprudence.		
EMPLOYABILITY SKILLS		**10**	**0**
Application form	Prepare an application form accurately.		
Resume	Write an resume.		
Interview	Participate in an interview.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
PROBLEM-SOLVING AS RELATED TO THE CLINICAL ENVIRONMENT		**10**	**0**
Stress level	Identify factors which increase the stress level of team members and patients. Recognize the aspects of a good relationship with patients and team members.		
Roles of team member	Differentiate between the roles of each team member.		
Problem solving	Relate theory to clinical practice in problem solving.		

FUNDAMENTAL OCCUPATIONAL

DEN 108 - Scopes Of Professional Practice

Resources

Ehrlich, A. (1976). *Ethics and jurisprudence.* Champaign, IL: Colwell.

Ehrlich, A. (1982). *Psychology in the dental office.* Champaign, IL: Colwell.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W. B. Saunders.

Wiles, C. B., & Ryan, W. (1982). *Communication skills for dental auxiliaries.* Reston, VA: Reston.

Audiovisuals

"Planning for Success - A Job and Life Skills Series"
Set of Six — Filmstrip/Tape

National Communications, Inc.
1300 East Araphro Street
Richardson, TX 75081

Document Number:
04-01-01

SPECIFIC OCCUPATIONAL

DEN 110 - Dental Assisting - Diagnostic

Course Overview

Course Description

Introduces students to chairside assisting with diagnostic procedures. Topics include: 4-handed dentistry; operatory preparation; instrument transfer; vision control - suctioning, retraction, and air-water spray; oral examination - charting and treatment records; and diagnostic techniques, irreversible hydrocolloid, and gypsum products.

Competency Areas

4-Handed Dentistry
Operatory Preparation
Instrument Transfer
Vision Control - Suctioning, Retraction, and Air-Water Spray
Oral Examination - Charting and Treatment Records
Diagnostic Techniques, Irreversible Hydrocolloid, and Gypsum Products

Prerequisite

Program admission

Prerequisite/Corequisite

DEN 105, DEN 106

Credit Hours

3

Contact Hours Per Week

Class - 2

P.Lab - 3

SPECIFIC OCCUPATIONAL

DEN 110 - Dental Assisting - Diagnostic

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
4-HANDED DENTISTRY		**3**	**1**
Chairside assisting	Implement four-handed dentistry concepts in all treatments procedures a. Assume correct positions b. Perform instrument transfers c. Maintain access and visibility for treatment procedures		
Impression Trays	Select, prepare, and/or modify impression trays for appropriate uses.		
OPERATORY PREPARATION		**1**	**2**
Infection control	Prepare the treatment room to receive and treat the patient using infection control procedures.		
Seat Patient	Seat and prepare patient: position and adjust equipment		
INSTRUMENT TRANSFER		**2**	**6**
Armamentarium	Prepare appropriate treatment trays with armamentarium in sequence of use delivery position.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
VISION CONTROL - SUCTIONING, RETRACTION, AND AIR-WATER SPRAY		**2**	**6**
Oral evacuation	Maintain field of operation during dental procedures through the use of retraction, evacuation, irrigation, drying, etc. Place and remove cotton rolls.		
ORAL EXAMINATION - CHARTING AND TREATMENT RECORDS		**4**	**3**
Isolation	Maintain field of operation during dental procedures through the use of retraction, evacuation, irrigation, drying, etc. Place and remove cotton rolls.		
Chief complaint	Record the purpose of patient's visit and/or chief complaint.		
Record data	Record data obtained from medical laboratory reports onto the patient's medical history. Obtain and record patient's medical and dental history using both interviews and written questionnaires.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
	Assist with the assessment of patient's general physical abnormal characteristics.		
	Record treatment and prescriptions (e.g. medication, instructions) on patient's chart.		
Charting	Assist with the recording of any abnormal findings in the oral cavity.		
	Chart conditions in the patient's mouth, including: a. Existing Restorations, b. Missing teeth, c. Pathosis.		
Diagnostic tests	Prepare for and assist with the collection of diagnostic data, such as biopsies, pulp test, cytologic smears, and photograph.		
DIAGNOSTIC TECHNIQUES, IRREVERSIBLE HYDROCOLLOID, AND GYPSUM PRODUCTS		**8**	**12**
Impressions	Take impressions for study casts.		
Vital signs	Take and record temperature.		
	Take and record pulse rate and description.		
	Measure and record blood pressure.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
Calm apprehensive patients	Demonstrate ability to calm and reassure apprehensive patients.		
Preparation of impression materials	Prepare the following materials for impressions: irreversible hydrocolloid (alginate), polysulfide, reversible hydrocolloid, silicone, and stick and cake compound.		
	Properly store impression materials.		
	Prepare the following materials for impressions: irreversible hydrocolloid (alginate), polysulfide, reversible hydrocolloid, silicone, and stick and cake compound.		
Gypsum products	Select and manipulate the various gypsum products.		
	Fabricate and evaluate diagnostic casts, including trimming, and finishing.		

SPECIFIC OCCUPATIONAL

DEN 110 - Dental Assisting - Diagnostic

Resources

Chasteen, J. E. (1989). *Essentials of clinical dental assisting* (4th ed.) St. Louis: C. V. Mosby.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W. B. Saunders.

Audiovisuals

"Patient Management"	3/4 videotape
"Measuring and Recording Blood Pressure"	3/4 videotape
"Use of the Rubber Dam on Adults"	3/4 videotape
"Use of the Rubber Dam on Children"	3/4 videotape

Quercus Corporation
2768 Pineridge Road
Castro Valley, CA 94546

"Maintain a Clear Operating Field"	Slides
"Assist With the Application and Removal of the Rubber Dam"	Slides
"Apply and Remove Rubber Dam"	Slides

Colwell Systems, Inc.
201 Kenyon Road
P.O. Box 4025
Champaign, IL 61820-9925

"Science of Dental Materials" Series 1-10	Slide/Tape

Multi-Media Publishing
1393 South Inca Street
Denver, CO 80223

Resources

Chair Manikin for Auxiliary Training No. M-1R-DA-6	Model
Columbia Dentoform Corporation 22-19 41st Street Long Island City, NY 11101	
"Introduction for Four-Handed Dentistry	Slide/Tape
J. B. Lippincott Company Philadelphia, PA	

Document Number:
04-02-01

SPECIFIC OCCUPATIONAL

DEN 111 - Dental Assisting - Operative

Course Overview

Course Description

Emphasizes chairside assisting with operative procedures. Topics include: techniques and materials in operative dentistry; isolation techniques; anesthetic techniques; fundamentals of dental material basics; and tray set-ups.

Competency Areas

Operative Dentistry
Techniques and Materials Including
Amalgam, Composites, and Gold Foil
Rubber Dam Placement, Removal,
and Isolation Techniques
Anesthetic Techniques
Dental Material Basics
Tray Set-Ups

Prerequisite/Corequisite

DEN 106, DEN 110

Credit Hours

3

Contact Hours Per Week

Class - 2

P.Lab - 3

SPECIFIC OCCUPATIONAL

DEN 111 - Dental Assisting - Operative

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
OPERATIVE DENTISTRY		**3**	**0**
Introduction	Identify the principles of cavity preparation.		
Cavity classification	Identify the six cavity classifications.		
Four-handed dentistry	Using the concepts of four-handed dentistry, assist with general dentistry procedures.		
Preventive maintenance on equipment, etc	Perform preventive maintenance on the equipment and instruments in the dental operatory as per manufacturer's instructions.		
	Sharpen hand cutting instruments by both manual and mechanical methods.		
TECHNIQUES AND MATERIALS INCLUDING AMALGAM, COMPOSITES, AND GOLD FOIL		**5**	**12**
Matrix bands	Prepare, assist with, and/or apply and remove matrix bands.		
Rotary instruments	Identify and exchange rotary instruments in dental handpieces.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
Preparation of materials	Prepare, mix, deliver, and store restorative materials including: amalgam, calcium hydroxide preparations, composites, and temporary restorative materials. Prepare and/or seat temporary crowns		
RUBBER DAM PLACEMENT, REMOVAL, AND ISOLATION TECHNIQUES		**3**	**8**
Cotton balls	Place and remove cotton rolls.		
Rubber dam	Assist with and/or apply and remove the rubber dam.		
ANESTHETIC TECHNIQUES		**2**	**1**
Supplies	Prepare carpule and non-carpule hypodermic syringes for injection. Assist with and/or apply topical anesthetic to site of injection.		
DENTAL MATERIAL BASICS		**3**	**0**
Physical properties	Describe the basic physical properties of dental materials and related to specific types of materials.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
TRAY SET-UPS		**4**	**9**
Armamentarium	Prepare appropriate treatment trays with armamentarium in sequence of use delivery position. Select and prepare tray set-ups and all necessary armamentarium for general dentistry procedures.		

SPECIFIC OCCUPATIONAL

DEN 111 - Dental Assisting - Operative

Resources

Chasteen, J. E. (1989). *Essentials of clinical dental assisting* (4th ed.). St. Louis: C. V. Mosby.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W. B. Saunders.

Audiovisuals

"Restorative Procedures" 3/4 videotape

Quercus Corporation
2768 Pineridge Road
Castro Valley, CA 94546

"Assisting During an Amalgam Restoration" 3/4 videotape
"Assisting with a Composite Restoration" 3/4 videotape

Colwell Systems, Inc.
201 Kenyon Road
Champaign, IL 61820

"Bonding" 1/2 videotape

Video Education Company of America
15 Boylston Place
Brookline, MA 02146

"Recontouring, Finishing, and
Polishing Restorations" 3/4 videotape

Quercus Corporation
2768 Pineridge Road
Castro Valley, CA 94546

SPECIFIC OCCUPATIONAL

DEN 112 - Dental Assisting - Fixed Prosthodontics

Course Overview

Course Description

Emphasizes chairside assisting with fixed prosthodontic procedures. Topics include: fixed prosthodontic techniques and materials; fixed prosthodontic laboratory procedures; and laboratory equipment maintenance.

Competency Areas

Fixed Prosthodontic Techniques and Materials
Fixed Prosthodontic Laboratory Procedures
Laboratory Equipment Maintenance

Prerequisite/Corequisite

DEN 110

Credit Hours

3

Contact Hours Per Week

Class - 2

P.Lab - 3

SPECIFIC OCCUPATIONAL

DEN 112 - Dental Assisting - Fixed Prosthodontics

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
FIXED PROSTHODONTIC TECHNIQUES AND MATERIALS		**10**	**11**
Tooth preparations	Identify the various fixed prosthodontic tooth preparations. Identify the various types of crowns and bridges.		
Tray set-up	Prepare appropriate treatment trays with armamentarium in sequence of use delivery position. Select and prepare tray set-ups and all necessary armamentarium for general dentistry procedures.		
Temporary cement	Assist with, place, and/or remove temporary cement. Assist with, and/or remove excess cement from the coronal surfaces of teeth, restorations, and appliances.		
Chairside assisting	Using the concepts of four-handed dentistry, assist with general dentistry procedures.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
Preparation of impression materials	Prepare the following materials for impressions: polysulfide, reversible hydrocolloid, silicone, waxes.		
	Properly store impression materials.		
Temporary crowns	Prepare, mix, deliver, and store restorative materials including: cements and temporary restorative materials.		
	Prepare and/or seat temporary crowns		
Temporary bridges	Prepare and/or seat temporary bridges		
Home-care instructions	Instruct the patient how to care for removable and nonremovable appliances and prostheses.		
FIXED PROSTHODONTIC LABORATORY PROCEDURES		**8**	**18**
Dental waxes	Select and manipulate the various dental waxes.		
Gypsum products	Properly store gypsum products and dental waxes.		

Recommended Outline	After completing this section, the student will:	Hours Class	Lab
	Mount diagnostic casts on an articulator.		
Custom trays	Fabricate custom impression trays.		
Temporaries	Construct and acrylic temporary bridges and crowns.		
LABORATORY EQUIPMENT MAINTENANCE		**2**	**1**
Prevention maintenance	Perform preventive maintenance on equipment in the dental laboratory as per manufacturer's instructions.		

SPECIFIC OCCUPATIONAL

DEN 112 - Dental Assisting - Fixed Prosthodontics

Resources

Chasteen, J. E. (1989). *Essentials of clinical dental assisting* (4th ed.). St. Louis: C. V. Mosby.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W. B. Saunders.

Audiovisuals

"Fixed Prosthetics" 3/4 videotape

Colwell Systems, Inc.
201 Kenyon Road
Champaign, IL 61820

"Patient Education - Back in Action-Bridges" 1/2 videotape

Video Education Company of America
15 Boylston Place
Brookline, MA 02146

SPECIFIC OCCUPATIONAL

DEN 113 - Dental Assisting - Specialties

Course Overview

Course Description

Focuses on chairside assisting with advanced operative procedures and specialty practices. Topics include: advanced operative techniques; removable prosthetics; pediatric dentistry, orthodontic procedures and endodontic procedures.

Competency Areas

Advanced Operative Techniques
Removable Prosthetics
Pediatric Dentistry, Orthodontic Procedures,
and Endodontic Procedures

Prerequisite/Corequisite

DEN 110

Credit Hours

3

Contact Hours Per Week

Class - 2

P.Lab - 3

SPECIFIC OCCUPATIONAL

DEN 113 - Dental Assisting - Specialties

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
ADVANCED OPERATIVE TECHNIQUES		4	3
Armamentarium	Prepare appropriate treatment trays with armamentarium in sequence of use delivery position.		
	Select and prepare tray set-ups and all necessary armamentarium for specialty dental procedures.		
Chairside assisting	Using the concepts of four-handed dentistry, assist with dental specialty procedures.		
Dental materials	Select and manipulate the various finishing, polishing, and cleaning agents.		
	Prepare, mix, deliver, and store the dental materials, including: bonding agents, pit and fissure sealants.		
Home-care instructions	Provide patient with oral and/or written pre-and post-treatment instructions.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
REMOVABLE PROSTHETICS		**4**	**9**
Tray set-ups	Prepare appropriate treatment trays with armamentarium in sequence of use delivery position.		
	Select and prepare tray set-ups and all necessary armamentarium for specialty dental procedures.		
Chairside assisting	Using the concepts of four-handed dentistry, assist with dental specialty procedures.		
Dental materials	Prepare the following materials for impressions: stick and cake compound, zinc oxide-eugenol.		
	Select and manipulate the various finishing, polishing, and cleaning agents.		
Removable prostheses	Clean and polish removable appliances and prostheses.		
	Clean and polish complete/partial dentures		
	Repair a denture.		
Patient instructions	Provide patient with oral and/or written pre-and post-treatment instructions.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
	Instruct the patient how to care for removable and nonremovable appliances and prostheses.		
PEDIATRIC DENTISTRY, ORTHODONTIC PROCEDURES, AND ENDODONTIC PROCEDURES		**12**	**18**
Tray set-ups	Prepare appropriate treatment trays with armamentarium in sequence of use delivery position.		
	Select and prepare tray set-ups and all necessary armamentarium for specialty dental procedures.		
Chairside assisting	Assist with and/or apply topical fluoride		
	Assist with a vitality test.		
	Using the concepts of four-handed dentistry, assist with dental specialty procedures.		
Dental materials	Select and manipulate the various finishing, polishing, and cleaning agents.		
	Prepare, mix, deliver, and store the dental materials, including: bonding agents, pit and fissure sealants		
Patient instructions	Provide patient with oral and/or written pre-and post-treatment instructions.		

SPECIFIC OCCUPATIONAL

DEN 113 - Dental Assisting - Specialties

Resources

Chasteen, J. E. (1989). *Essentials of clinical dental assisting* (4th ed.). St. Louis: C. V. Mosby.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W. B. Saunders.

Audiovisuals

"Diagnosis and Treatment Plan in Endodontics"	3/4 videotape
"Clinical Procedures for the Dental Assistant"	3/4 videotape
"Root Canal"	3/4 videotape
"Root Canal Therapy I"	3/4 videotape
"Root Canal Therapy II"	3/4 videotape
"Endodontics - A Retrograde Amalgam"	3/4 videotape

National Audiovisual Center
General Services Administration
Washington, DC 20409

"Patient Education - A Tale of Two Teeth"	1/2 videotape
"Patient Education - Now that You Have Braces"	1/2 videotape

Video Education Company of America
15 Boylston Place
Brookline, MA 02146

"Band and Loop - Part I"	3/4 videotape
"Band and Loop - Part II"	3/4 videotape

Quercus Corporation
2769 Pineridge Road
Castro Valley, CA 94546

Resources

Endodontic Models -#1100 Maxillary and Mandibular Models	Models
Viade Products, Inc. 354 Dawson Drive Camarillo, CA 93010	
"Stainless Steel Crown"	3/4 videotape
Quercus Corporation 2769 Pineridge Road Castro Valley, CA 94546	

SPECIFIC OCCUPATIONAL

DEN 114 - Dental Assisting - Surgical Specialties

Course Overview

Course Description

Focuses on chairside assisting in the surgical specialties. Topics include: periodontic procedures, oral and maxillofacial surgery procedures, special patient management, and management of dental office emergencies (CPR).

Competency Areas

Periodontic Procedures
Oral and Maxillofacial Procedures
Special Patient Management
Management of Dental Office
Emergencies (CPR)

Prerequisite/Corequisite

DEN 110

Credit Hours

3

Contact Hours Per Week

Class - 2

P.Lab - 3

SPECIFIC OCCUPATIONAL

DEN 114 - Dental Assisting - Surgical Specialties

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
PERIODONTIC PROCEDURES		**4**	**9**
Introduction	Recognize present treatment and/or medication.		
Tray set-ups	Prepare appropriate treatment trays with armamentarium in sequence of use delivery position.		
	Select and prepare tray set-ups and all necessary armamentarium for specialty dental procedures.		
	Select and prepare tray set-ups and all necessary armamentarium for emergency dental procedures.		
Chairside assisting	Assist with and/or control minor bleeding after extraction or incision.		
	Using the concepts of four-handed dentistry, assist with dental specialty procedures.		
Vital signs	Monitor and record patient's response to drugs/medications.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
Surgical dressings	Assist with, mix, change, and/or remove periodontal surgical dressings.		
	Assist with, mix, change, and/or remove post-extraction dressings.		
	Assist with, mix change, and/or remove sedative dressings.		
Patient instructions	Provide patient with oral and/or written pre-and post-treatment instructions.		
Care of supplies	Provide appropriate care and storage of supplies such as sterile disposable products, nitrous oxide, oxygen, etc.		
Sharpen instruments	Sharpen hand cutting instruments by both manual and mechanical methods.		
ORAL AND MAXILLOFACIAL PROCEDURES		4	9
Introduction	Recognize present treatment and/or medication.		
Tray set-ups	Prepare appropriate treatment trays with armamentarium in sequence of use delivery position.		
	Select and prepare tray set-ups and all necessary armamentarium for specialty dental procedures.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
	Select and prepare tray set-ups and all necessary armamentarium for emergency dental procedures.		
Chairside assisting	Assist with and/or control minor bleeding after extraction or incision.		
	Using the concepts of four-handed dentistry, assist with dental specialty procedures.		
Vital signs	Monitor and record patient's response to drugs/medications.		
Surgical dressings	Assist with, mix, change, and/or remove post-extraction dressings.		
	Assist with, mix change, and/or remove sedative dressings.		
Care of supplies	Provide patient with oral and/or written pre-and post-treatment instructions.		
	Provide appropriate care and storage of supplies such as sterile disposable products, nitrous oxide, oxygen, etc.		
Sharpen instruments	Sharpen hand cutting instruments by both manual and mechanical methods.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
SPECIAL PATIENT MANAGEMENT		**2**	**0**
Apprehensive patients	Demonstrate ability to calm and reassure apprehensive patients. Deal with all types of patients including patients with special needs and problems.		
Drugs/medication	Monitor and record patient's response to drugs/medications.		
Patient instructions	Provide patient with oral and/or written pre-and post-treatment instructions.		
MANAGEMENT OF DENTAL OFFICE EMERGENCIES (CPR)		**10**	**12**
Prevention and management of medical emergencies	Implement techniques for the prevention of medical emergencies in patients with histories of conditions, such as:allergies, heart and blood disorders, congenital diseases, diabetes, and hepatitis.		
Dental related emergencies	Recognize the signs and symptoms related to specific medical conditions/emergencies likely to occur in the dental office. Respond to and assist in the management of chairside emergencies including CPR.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
Supplies and equipment	Assemble and maintain appropriate emergency supplies, drugs and		
Emergency guidelines	Prepare a procedures for position to follow when an emergency occurs.		
Dental related emergencies	Implement and/or assist with appropriate procedures for the management of dental emergencies.		

SPECIFIC OCCUPATIONAL

DEN 114 - Dental Assisting - Surgical Specialties

Resources

Chasteen, J. E. (1989). *Essentials of clinical dental assisting* (4th ed.). St. Louis: C. V. Mosby.

Leimone, C. A., & Earl, E. M. (1988). *Dental assisting: Basic and dental sciences.* St. Louis: C. V. Mosby.

Malamed, S. F. (1987). *Handbook of medical emergencies in the dental office* (3rd ed.). St. Louis: C. V. Mosby.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W. B. Saunders.

Audiovisuals

"Assisting with a Basic Extraction" 3/4 videotape

Colwell Systems, Inc.
201 Kenyon Road
Champaign, IL 61820

"Assisting with Suture Placement
and Removing Suture" 3/4 videotape

Quercus Corporation
2768 Pineridge Road
Castro Valley, CA 94546

Resources

"Medical Emergencies in the Dental Office"	3/4 videotape
"Sharpening Periodontal Instruments"	3/4 videotape
"Oral Surgery Clinic Routine - Part 2"	3/4 videotape
"Oral Surgery Clinic Routine - Part 4"	3/4 videotape
"Standard Clinic Oral Surgery Instruments Pack"	3/4 videotape
"Periodontal Packs"	3/4 videotape

National Audiovisual Center
General Services Administration
Washington, DC 20409

"Periodontal Suturing"

National Audiovisual Center
8700 Edgeworth Drive
Capital Heights, MD 20743-3701

"Assess Periodontal Health" Slide/Tape

D.A.E. Project
Teachers College Press
Teachers College
Columbia University
New York, N.Y. 10027

"Functional Applied Periodontics" 1/2 videotape

Video Education Company of America
15 Boylston Place
Brookline, MA 02146

SPECIFIC OCCUPATIONAL

DEN 115 - Dental Assisting - Expanded Functions

Course Overview

Course Description

Focuses on expanded duties of dental auxiliary personnel approved by the Georgia Board of Dentistry. Topics include: expanded functions approved by law for performance by dental assistants.

Competency Areas

Expanded Functions Approved by Law for
Performance by Dental Assistants

Prerequisite

DEN 111, DEN 112, DEN 113

Corequisite

DEN 114

Credit Hours

3

Contact Hours Per Week

Class - 2

P.Lab - 3

SPECIFIC OCCUPATIONAL

DEN 115 - Dental Assisting - Expanded Functions

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
EXPANDED FUNCTIONS APPROVED BY LAW FOR PERFORMANCE BY DENTAL ASSISTANTS		**20**	**30**
Surgical dressings	Remove sutures.		
	Assist with, mix, change, and/or remove periodontal surgical dressings.		
Cements and temporaries	Assist with, and/or remove excess cement from the coronal surfaces of teeth, restorations, and appliances.		
	Prepare and/or seat temporary crowns		
	Prepare and/or seat temporary bridges		
Polish teeth	Assist with and/or polish teeth.		
Nitrous oxide	Assist with and/or monitor the administration of nitrous oxide/oxygen analgesia.		

SPECIFIC OCCUPATIONAL

DEN 115 - Dental Assisting - Expanded Functions

Resources

Chasteen, J. E. (1989). *Essentials of clinical dental assisting* (4th ed.). St. Louis: C. V. Mosby.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.) Philadelphia: W. B. Saunders.

Audiovisuals

"Aluminum Shell Crown" 3/4 videotape

Quercus Corporation
2768 Pineridge Road
Castro Valley, CA 94546

SPECIFIC OCCUPATIONAL

DEN 117 - Dental Practice Management

Course Overview

Course Description

Emphasizes procedures for office management in dental practices. Topics include: oral and written communications, records management, appointment control, dental insurance form regulations, accounting procedures, supply and inventory control, and basic computer skills. A computer lab provides basic skills in computer use and utilization of these skills to perform office procedures on a microcomputer.

Competency Areas

Oral and Written Communication
Records Management
Appointment Control
Dental Insurance Form Preparation
Accounting Procedures
Supply and Inventory Control
Basic Computer Skills

Prerequisite

DEN 110

Credit Hours

5

Contact Hours Per Week

Class - 4

P.Lab - 4

SPECIFIC OCCUPATIONAL

DEN 117 - Dental Practice Management

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
ORAL AND WRITTEN COMMUNICATION		**4**	**4**
Effective communication on techniques	Communicate effectively and establish a good working relationships with patients and with other members of the dental health care team. Utilize effective telephone techniques. Prepare business correspondence.		
RECORDS MANAGEMENT		**4**	**2**
General office procedures	Establish and maintain an effective appointment control system. Present case presentations to patients and set up payments systems. Perform general office procedures. Maintain an active recall system. Maintain a filing system for patient and practice records.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
APPOINTMENT CONTROL		**6**	**4**
Managing appointment books	Establish and maintain an effective appointment control system.		
DENTAL INSURANCE FORM PREPARATION		**6**	**6**
Dental insurance	Prepare insurance forms.		
ACCOUNTING PROCEDURES		**12**	**12**
Accounts receivable activities	Perform pegboard bookkeeping procedures		
	Perform age analysis of accounts		
	Perform banking procedures.		
	Prepare payroll.		
	Balance and replenish petty cash		
	Maintain a monthly summary of earnings and expenses		
	Maintain a yearly summary of earnings and expenses		
SUPPLY AND INVENTORY CONTROL		**2**	**0**
Supply and inventing control	Maintain and control supplies through and inventory control system.		
	Order and purchase supplies.		

Recommended Outline	After completing this section, the student will:	Hours Class	Lab
BASIC COMPUTER SKILLS		**6**	**12**
Introduction to computer	Use basic computer skills for performing front office procedures.		

SPECIFIC OCCUPATIONAL

DEN 117 - Dental Practice Management

Resources

American Dental Association. (1986). *Starting your dental practice*. Chicago: Author

Ehrlich, A. (1988). *Business administration for the dental assistant.* Champaign, IL: Colwell.

Ehrlich, A. (1988). *Managing insurance claims in the dental office* (2nd ed.). Champaign, IL: Colwell.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W. B. Saunders.

Audiovisuals

"Managing Your Practice the Pegboard Way"	1/2 videotape
"Increasing Productivity Through Effective Scheduling"	Slides
"Pegboard Bookkeeping in the Dental Office"	Slides

Colwell Systems, Inc.
201 Kenyon Road
Champaign, IL 61820

"Effective Personality Interactions"	6 Audiotapes

Semantodontics, Inc.
3714 E. Indian School Road
P. O. Box 15668
Phoenix, AZ

"Dynamic Communications-Course I"	6 Audiotapes

Dental Dynamics, Inc.
1000 First Colonial Rd. Suite 103
Virginia Beach, VA 23454

SPECIFIC OCCUPATIONAL

DEN 118 - Dental Radiology

Course Overview

Course Description

After completion of the course the student will be able to provide radiation safety for patient and self, expose x-rays, process x-rays, and prepare dental films for the dental office. Topics include: fundamentals of radiology, radiographic anatomy and interpretation, intraoral and extraoral radiographic techniques, and quality assurance techniques.

Competency Areas

Fundamentals of Radiology
Radiographic Anatomy and Interpretation
Intraoral and Extraoral Radiographic Techniques
Quality Assurance Techniques

Prerequisite/Corequisite

DEN 102, DEN 106

Credit Hours

3

Contact Hours Per Week

Class - 3

P.Lab - 2

SPECIFIC OCCUPATIONAL

DEN 118 - Dental Radiology

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
FUNDAMENTALS OF RADIOLOGY		**10**	**0**
Introduction	Apply the principles of radiation protection and health physics and hazards in the operation and maintenance of radiographic equipment.		
Protection measures	Practice patient safety measures to provide protection from x-ray radiation.		
	Practice operator safety measures to provide protection form x-ray radiation.		
	Adopt a technique for monitoring individual radiation exposure.		
RADIOGRAPHIC ANATOMY AND INTERPRETATION		**5**	**4**
Mounting	Mount radiographs.		
Interpretation for diagnostic	Evaluate radiographs for diagnostic quality.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
INTRAORAL AND EXTRAORAL RADIOGRAPHIC TECHNIQUES		**10**	**14**
Introduction of the X-ray machine	Adjust voltage, amperage, and timer on x-ray machine.		
Parralleling technique	Expose radiographs using the paralleling technique		
Occlusal techniques	Expose occlusal radiographs.		
Extra oral techniques	Expose extra oral radiographs.		
	Expose paographic film.		
Patient management	Perform patient management techniques related to dental radiography.		
	Prepare radiographic solutions for manual and automatic processors.		
	Process exposed intra-and extraoral dental radiographs by use of manual and mechanical techniques.		
QUALITY ASSURANCE TECHNIQUES		**5**	**2**
Interpretation for diagnostic	Evaluate radiographs for diagnostic quality.		
Faulty processing techniques	Evaluate radiographs for processing errors.		

SPECIFIC OCCUPATIONAL

DEN 118 - Dental Radiology

Resources

Brown, G. E., Renne, R. L., & Bontrages, K. L. (1976). *Instructor's manual, dental radiology: A self-instructional multimedia learning series lessons 1-7.* Denver: Multi-media.

Brown, G. E., Renne, R. L., & Bontrages, K. L. (1976). *Instructor's manual, dental radiology: A self-instructional multimedia learning series lessons 8-14.* Denver: Multi-media.

De Lyre, W., & Johnson, O. (1985). *Essentials of dental radiography for dental assistance and hygienists.* (3rd ed.) Englewood Cliffs, NJ: Prentice-Hall.

Frommer, H. (1987). *Radiology for dental auxiliaries.* St. Louis: C. V. Mosby.

Manson - Hing, L. R. (1985). *Fundamentals of dental radiography* (2nd ed.) Philadelphia: Lea & Febiger.

Miles, D. A., Van Dis, M. L., Jensen, C. W., & Ferretti, A. (1989). *Radiographic imagining for dental auxiliaries.* Philadelphia: W. B. Saunders.

Audiovisuals

"X-rays, Do I Have Too?" — 3/4 videotape

National Audiovisual Center
8700 Edgeworth Drive
Capitol Heights, MD 20743-3701

"Dental Radiology Slide-Tape Series" — Slide/Tape
13 sets

Multi-Media Publishing Corporation
Denver, CO

Resources

"Processing Pitfalls of Radiodontics"	Slides
"Exposure Pitfalls of Radiodontics"	Slides
"Inteerpretation and Misinterpretation of Maxillary Landmarks"	Slides
"Interpretation and Misinterpretation of Mandibular Landmarks"	Slides

Radiography Markets Division
Eastman Kodak Company
Rochester, NY 14650

DXTTR manikin III	Radiography model
Pedo DXTTR manikin	Radiography model

Rinn Corporation
1212 Abbott Drive
Elgin, IL 60120

SPECIFIC OCCUPATIONAL

DEN 120 - Dental Practicum I

Course Overview

Course Description

Practicum focuses on infection control in the dental office and assisting with diagnostic and simple operative procedures. Topics include: infection control, instrument disinfection/sterilization, tray set-ups, operatory preparation and maintenance, four-handed dentistry as applied to clinical data collection and diagnostic procedures.

Competency Areas

Infection Control Procedures
Clinical Data Collection and
Diagnostic Procedures
Basic Chairside Four-Handed Dentistry
Techniques and Procedures

Prerequisite/Corequisite

DEN 105, DEN 110

Credit Hours

1

Contact Hours Per Week

Class - 0

O.B.I. - 3

SPECIFIC OCCUPATIONAL

DEN 120 - Dental Practicum I

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class OBI
INFECTION CONTROL PROCEDURES		**(30)**
Mechanical procedures	Implement the appropriate methods of sterilization for dental instruments and supplies.	
Chemical procedures	Implement the appropriate method of disinfection/sanitation for dental instruments, equipment, and supplies.	
Cross contamination prevention	Prepare antiseptics and germicidal agents.	
	Identify the modes of disease transmission and implement procedures required to prevent and/or minimize the transmission of disease in the dental offices	
	Prevent cross-contamination and disease-transmission at chairside.	
	Maintain aseptic conditions for dental operating equipment, clinical areas, and storage areas.	
	Store all instruments providing asepsis.	

Recommended Outline	After completing this section, the student will:	Hours Class	Hours OBI
CLINICAL DATA COLLECTION AND DIAGNOSTIC PROCEDURES		**0**	**10**
Record data	Obtain and record patient's medical and dental history using both interviews and written questionnaires.		
	Record the purpose of patient's visit and/or chief complaint.		
	Record data obtained from medical laboratory reports onto the patient's medical history.		
	Identify and locate the morphologic types of teeth in the primary and permanent dentition.		
	Identify the surfaces of the tooth.		
	Assist with the recording of any abnormal findings in the oral cavity.		
Charting	Chart conditions in the patient's mouth, including: Existing, Restorations, Missing teeth, and Pathosis.		
	Prepare for and assist with the collection of diagnostic data, such as biopsies, pulp test, cytologic smears, and photograph.		
	Take impressions for study casts.		
	Prepare the following materials for impressions: irreversible hydrocolloid (alginate)		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours OBI
	Properly store impression materials.		
	Select and manipulate the various gypsum products.		
	Select and manipulate the various dental waxes.		
	Fabricate and evaluate diagnostic casts, including trimming, and finishing.		
BASIC CHAIRSIDE FOUR-HANDED DENTISTRY TECHNIQUES AND PROCEDURES		**0**	**20**
Treatment room	Prepare the treatment room to receive and treat the patient using infection control procedures.		
Armamentarium	Prepare appropriate treatment trays with armamentarium in sequence of use delivery position.		
Seat patient	Seat and prepare patient: position and adjust equipment		
Four-handed dentistry concepts	Implement four-handed dentistry concepts in all treatments procedures.		
Isolation techniques	Maintain field of operation during dental procedures through the use of retraction, evacuation, irrigation, drying, etc.		
	Place and remove cotton rolls.		

Recommended Outline	After completing this section, the student will:	Hours Class OBI
Safety measures	Follow the guidelines of occupational safety for dental office personnel as specified by Occupational Safety and Health Association and American Dental Association. Incorporate all safety measures when using and delivering toxic materials or irritants.	

SPECIFIC OCCUPATIONAL

DEN 120 - Dental Practicum I

Resources

Chasteen, J. E. (1989). *Essentials of clinical dental assisting* (4th ed.). St. Louis: C. V. Mosby.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W. B. Saunders.

SPECIFIC OCCUPATIONAL

DEN 121 - Dental Practicum II

Course Overview

Course Description

Practicum focuses on infection control in the dental office, assisting chairside with diagnostic and restorative procedures, and clinical radiographic techniques. Topics include: infection control procedures, clinical data collection and diagnostic procedures, four-handed operative dentistry, four-handed fixed prosthodontics, and dental radiography.

Competency Areas

Infection Control Procedures
Clinical Data Collection and
Diagnostic Procedures
Four-Handed Operative Dentistry
Four-Handed Fixed Prosthodontics
Dental Radiography

Prerequisites/Corequisites

DEN 111, DEN 112, DEN 118, DEN 120

Credit Hours

2

Contact Hours Per Week

Class - 0

O.B.I. - 8

SPECIFIC OCCUPATIONAL

DEN 121 - Dental Practicum II

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class OBI
INFECTION CONTROL PROCEDURES		**(80)**
Mechanical procedures	Implement the appropriate methods of sterilization for dental instruments and supplies.	
Chemical procedures	Implement the appropriate method of disinfection/sanitation for dental instruments, equipment, and supplies.	
Cross-contamination prevention	Prepare antiseptics and germicidal agents.	
	Identify the modes of disease transmission and implement procedures required to prevent and/or minimize the transmission of disease in the dental offices.	
	Prevent cross-contamination and disease-transmission at chairside.	
	Maintain aseptic conditions for dental operating equipment, clinical areas, and storage areas.	
	Store all instruments providing asepsis.	

Recommended Outline	After completing this section, the student will:	Hours Class	Hours OBI
CLINICAL DATA COLLECTION AND DIAGNOSTIC PROCEDURES		**0**	**10**
Data collection	Record treatment and prescriptions (e. g. medication, instructions) on patient's chart.		
	Recognize present treatment and/or medication.		
Vital signs	Take and record temperature.		
	Take and record pulse rate and description.		
	Measure and record blood pressure.		
	Observe and record respiration rate.		
FOUR-HANDED OPERATIVE DENTISTRY		**0**	**15**
Chairside assisting procedures	Using the concepts of four-handed dentistry, assist with general dentistry procedures.		
FOUR-HANDED FIXED PROSTHODONTICS		**0**	**15**
Chairside assisting procedures	Using the concepts of four-handed dentistry, assist with dental specialty procedures.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours OBI
DENTAL RADIOGRAPHY		**0**	**40**
Operation of unit	Adjust voltage, amperage, and timer on x-ray machine.		
Bisecting technique	Expose radiographs using the bisecting technique.		
Paralleling techniques	Expose radiographs using the paralleling technique		
Occlusal technique	Expose occlusal radiographs.		
Extra oral technique	Expose extra oral radiographs.		
Panoramic technique	Expose paographic film.		
Mounting	Mount radiographs.		
Interpretation	Evaluate radiographs for diagnostic quality.		
Processing	Prepare radiographic solutions for manual and automatic processors.		
	Process exposed intra-and extraoral dental radiographs by use of manual and mechanical techniques.		
Quality control	Evaluate radiographs for processing errors.		

Recommended Outline	After completing this section, the student will:	Hours Class OBI
Radiation protection	Apply the principles of radiation protection and health physics and hazards in the operation and maintenance of radiographic equipment. Perform patient management techniques related to dental radiography. Practice patient safety measures to provide protection from x-ray radiation. Practice operator safety measures to provide protection form x-ray radiation. Adopt a technique for monitoring individual radiation exposure.	

SPECIFIC OCCUPATIONAL

DEN 121 - Dental Practicum II

Resources

Brown, G. E., Renne, R. L., & Bontrages, K. L. (1976). *Instructor's manual, dental radiology: A self-instructional multimedia learning series lessions 1-7.* Denver: Multi-media.

Chasteen, J. E. (1989). *Essentials of clinical dental assisting* (4th ed.) St. Louis: C. V. Mosby.

De Lyre, W., & Johnson, O. (1985). *Essentials of dental radiography for dental assistance and hygienists* (3rd ed.). Englewood Cliffs, NJ: Prentice-Hall.

Frommer, H. (1987). *Radiology for dental auxiliaries.* St. Louis: C. V. Mosby.

Manson - Hing, L. R. (1985). *Fundamentals of dental radiography* (2nd ed.). Philadelphia: Lea & Febiger.

Miles, D. A., Van Dis, M.L. Jensen, C. W., & Ferretti, A. (1989). *Radiographic imagining for dental auxiliaries.* Philadelphia: W. B. Saunders.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W . B. Saunders.

SPECIFIC OCCUPATIONAL

DEN 122 - Dental Practicum III

Course Overview

Course Description

Practicum focuses on infection control in the dental office and assisting chairside with diagnostic and restorative procedures. Topics include: infection control procedures, clinical data collection and diagnostic procedures, and four-handed operative dentistry.

Competency Areas

Infection Control Procedures
Clinical Data Collection and
Diagnostic Procedures
Four-Handed Operative Dentistry

Prerequisites/Corequisites

DEN 111, DEN 120

Credit Hours

1

Contact Hours Per Week

O.B.I. - 4

Class - 0

SPECIFIC OCCUPATIONAL

DEN 122 - Dental Practicum III

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class OBI
INFECTION CONTROL PROCEDURES		**(40)**
Mechanical procedures	Implement the appropriate methods of sterilization for dental instruments and supplies.	
Chemical procedures	Implement the appropriate method of disinfection/sanitation for dental instruments, equipment, and supplies.	
Cross-contamination prevention	Prepare antiseptics and germicidal agents.	
	Identify the modes of disease transmission and implement procedures required to prevent and/or minimize the transmission of disease in the dental offices.	
	Prevent cross-contamination and disease-transmission at chairside.	
	Maintain aseptic conditions for dental operating equipment, clinical areas, and storage areas.	
	Store all instruments providing asepsis.	

Recommended Outline	After completing this section, the student will:	Hours Class	Hours OBI
CLINICAL DATA COLLECTION AND DIAGNOSTIC PROCEDURES		**0**	**10**
Data collection	Record treatment and prescriptions (e.g. medication, instructions) on patient's chart.		
	Recognize present treatment and/or medication.		
Vital signs	Take and record temperature.		
	Take and record pulse rate and description.		
	Measure and record blood pressure.		
	Observe and record respiration rate.		
FOUR-HANDED OPERATIVE DENTISTRY		**0**	**30**
Tray selections	Select, prepare, and/or modify impression trays for appropriate uses.		
Anesthesia equipment	Prepare carpule and non-carpule hypodermic syringes for injection.		
Tray set-ups: General dentistry	Select and prepare tray set-ups and all necessary armamentarium for general dentistry procedures.		

Recommended Outline	After completing this section, the student will:	Hours Class OBI
Tray set-ups: Emergency procedures	Select and prepare tray set-ups and all necessary armamentarium for emergency dental procedures.	
	Assist with and/or apply and remove the rubber dam.	
Rubber dam technique	Prepare, assist with, and/or apply and remove matrix bands.	
Matrix band	Assist with and/or apply topical anesthetic to site of injection.	
Anesthesia	Assist with and/or monitor the administration of nitrous oxide/oxygen analgesia.	
Rotary instruments	Identify and exchange rotary instruments in dental handpieces.	
Patient management	Demonstrate ability to calm and reassure apprehensive patients.	
	Deal with all types of patients including patients with special needs and problems.	
	Monitor and record patient's response to drugs/medications.	
Preparation of dental materials	Prepare, mix, deliver, and store restorative materials including: amalgam, calcium hydroxide preparations, composites, temporary restorative materials, varnishes, bases, and liners.	

Recommended Outline	After completing this section, the student will:	Hours Class OBI
Maintenance and storage	Perform preventive maintenance on the equipment and instruments in the dental operatory as per manufacturer's instructions. Provide appropriate care and storage of supplies such as sterile disposable products, nitrous oxide, oxygen, etc.	
Sharpening instruments	Sharpen hand cutting instruments by both manual and mechanical methods.	

SPECIFIC OCCUPATIONAL

DEN 122 - Dental Practicum III

Resources

Chasteen, J. E. (1989). *Essentials of clinical dental assisting* (4th ed.). St. Louis: C. V. Mosby.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W. B. Saunders.

SPECIFIC OCCUPATIONAL

DEN 123 - Dental Practicum IV

Course Overview

Course Description

Practicum focuses on infection control in the dental office and assisting chairside with diagnostic and restorative procedures. Topics include: impression materials, temporaries for crowns and bridges, and four-handed fixed prosthodontics.

Competency Areas

Impression Materials
Temporaries for Crowns and Bridges
Four-Handed Fixed Prosthodontics

Prerequisites/Corequisites

DEN 112, DEN 120

Credit Hours

1

Contact Hours Per Week

Class - 0

O.B.I. - 4

SPECIFIC OCCUPATIONAL

DEN 123 - Dental Practicum IV

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours Lab
IMPRESSION MATERIALS		**0**	**15**
Preparation of materials	Prepare the following materials for impressions:polysulfide, reversible hydrocolloid, silicone, stick and cake compound, waxes, and zincoxide-eugenol. Fabricate custom impression trays. Prepare, mix, deliver, and store restorative materials including: cements.		
TEMPORARIES FOR CROWNS AND BRIDGES		**0**	**15**
Temporary crowns and bridges	Construct and acrylic temporary bridges and crowns. Prepare and/or seat temporary crowns Prepare and/or seat temporary bridges		
FOUR-HANDED FIXED PROSTHODONTICS		**0**	**10**
Temporary cement	Assist with, place, and/or remove temporary cement		

Recommended Outline	After completing this section, the student will:	Hours Class OBI
	Assist with, and/or remove excess cement from the coronal surfaces of teeth, restorations, and appliances.	

SPECIFIC OCCUPATIONAL

DEN 123 - Dental Practicum IV

Resources

Chasteen, J. E. (1989). *Essentials of clinical dental assisting* (4th ed.). St. Louis: C. V. Mosby.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W. B. Saunders.

SPECIFIC OCCUPATIONAL

DEN 124 - Dental Practicum V

Course Overview

Course Description

Practicum continues to focus on assisting chairside with general dentistry procedures, but with increased emphasis on dental specialty procedures. Topics include: advanced operative dentistry, removable prosthodontics, endodontics, pediatric dentistry, and orthodontics.

Competency Areas

Chairside General Dentistry
Chairside Removable Prosthetics
Chairside Endodontics
Chairside Pediatric Dentistry
Chairside Orthodontics

Prerequisites/Corequisites

DEN 113, DEN 120

Credit Hours

2

Contact Hours Per Week

Class - 0

O.B.I. - 8

SPECIFIC OCCUPATIONAL

DEN 124 - Dental Practicum V

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours OBI
CHAIRSIDE GENERAL DENTISTRY		**0**	**16**
Treatment room	Prepare the treatment room to receive and treat the patient using infection control procedures.		
Armamentarium	Prepare appropriate treatment trays with armamentarium in sequence of use delivery position.		
Seat patient	Seat and prepare patient: position and adjust equipment		
Four-handed dentistry concepts	Implement four-handed dentistry concepts in all treatments procedures.		
Isolation techniques	Maintain field of operation during dental procedures through the use of retraction, evacuation, irrigation, drying, etc.		
	Place and remove cotton rolls.		
General dentistry procedures	Using the concepts of four-handed dentistry, assist with general dentistry procedures.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours OBI
Specialty procedures	Using the concepts of four-handed dentistry, assist with dental specialty procedures.		
Safety measures	Follow the guidelines of occupational safety for dental office personnel as specified by Occupational Safety and Health Association and American Dental Association. Incorporate all safety measures when using and delivering toxic materials or irritants.		
CHAIRSIDE REMOVABLE PROSTHETICS		**0**	**16**
Armamentarium	Select and prepare tray set-ups and all necessary armamentarium for specialty dental procedures.		
Four-handed dentistry concepts	Using the concepts of four-handed dentistry, assist with dental specialty procedures.		
Impression material	Prepare the following materials for impressions: silicone, stick and cake compound, zincoxide-eugenol		
Articulator	Mount diagnostic casts on an articulator.		
Removable prostheses	Clean and polish removable appliances and prostheses.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours OBI
	Clean and polish complete/partial dentures		
Custom tray	Fabricate custom impression trays.		
Denture repair	Repair a denture.		
CHAIRSIDE ENDODONTICS		**0**	**16**
Armamentarium	Select and prepare tray set-ups and all necessary armamentarium for specialty dental procedures.		
Four-handed dentistry concepts	Using the concepts of four-handed dentistry, assist with dental specialty procedures.		
Vitality test	Assist with a vitality test.		
Rubber dam application	Assist with and/or apply and remove the rubber dam.		
CHAIRSIDE PEDIATRIC DENTISTRY		**0**	**16**
Armamentarium	Select and prepare tray set-ups and all necessary armamentarium for specialty dental procedures.		
Four-handed dentistry concepts	Using the concepts of four-handed dentistry, assist with dental specialty procedures.		
Topical fluoride	Assist with and/or apply topical fluoride.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours OBI
Apprehensive patient	Demonstrate ability to calm and reassure apprehensive patients.		
Special needs patient	Deal with all types of patients including patients with special needs and problems.		
Drug reactions	Monitor and record patient's response to drugs/medications.		
Finishing, polishing, and cleaning agents	Select and manipulate the various finishing, polishing, and cleaning agents.		
Material manipulation and storage	Prepare, mix, deliver, and store the dental materials, including: bonding agents, pit and fissure sealants		
CHAIRSIDE ORTHODONTICS		**0**	**16**
Diagnostic data	Prepare for and assist with the collection of diagnostic data, such as biopsies, pulp test, cytologic smears, and photograph.		
Alginate impression	Take impressions for study casts.		
Tray selection	Select, prepare, and/or modify impression trays for appropriate uses.		
Armamentarium	Select and prepare tray set-ups and all necessary armamentarium for specialty dental procedures.		
Four-handed dentistry concepts	Using the concepts of four-handed dentistry, assist with dental specialty procedures.		

Recommended Outline	After completing this section, the student will:	Hours Class OBI
Finishing, polishing, and cleaning agents	Select and manipulate the various finishing, polishing, and cleaning agents.	
Material manipulation and storage	Prepare, mix, deliver, and store the dental materials, including: bonding agents	
Preventive information	Provide preventive oral health care information to the patient based on individual needs.	
Oral hygiene instructions	Instruct the patient in appropriate toothbrush selection and brushing techniques.	

SPECIFIC OCCUPATIONAL

DEN 124 - Dental Practicum V

Resources

Chasteen, J. E. (1989). *Essentials of clinical dental assisting* (4th ed.). St. Louis: C. V. Mosby.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W. B. Saunders.

SPECIFIC OCCUPATIONAL

DEN 125 - Dental Practicum VI

Course Overview

Course Description

Practicum continues to focus on assisting chairside with general dentistry procedures and with dental specialty procedures. Topics include: periodontics, oral and maxillofacial surgery, management of special patients, and dental office emergencies.

Competency Areas

Chairside General Dentistry
Chairside Periodontics
Chairside Oral and Maxillofacial Surgery
Management of Special Patient
Management of Dental Office Emergencies

Prerequisites/Corequisites

DEN 114, DEN 120

Credit Hours

2

Contact Hours Per Week

Class - 0

O.B.I. - 8

SPECIFIC OCCUPATIONAL

DEN 125 - Dental Practicum VI

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours OBI
CHAIRSIDE GENERAL DENTISTRY		**0**	**20**
Treatment room	Prepare the treatment room to receive and treat the patient using infection control procedures.		
Armamentarium	Prepare appropriate treatment trays with armamentarium in sequence of use delivery position.		
Seat Patient	Seat and prepare patient: position and adjust equipment		
Four-handed dentistry concepts	Implement four-handed dentistry concepts in all treatments procedures.		
Isolation techniques	Maintain field of operation during dental procedures through the use of retraction, evacuation, irrigation, drying, etc.		
	Place and remove cotton rolls.		
General dentistry procedures	Using the concepts of four-handed dentistry, assist with general dentistry procedures.		
Specialty procedures	Using the concepts of four-handed dentistry, assist with dental specialty procedures.		

Recommended Outline	After completing this section, the student will:	Hours Class	OBI
Safety measures	Follow the guidelines of occupational safety for dental office personnel as specified by Occupational Safety and Health Association and American Dental Association. Incorporate all safety measures when using and delivering toxic materials or irritants.		
CHAIRSIDE PERIODONTICS		**0**	**20**
Charting	Assist with the recording of any abnormal findings in the oral cavity.		
Armamentarium	Select and prepare tray set-ups and all necessary armamentarium for specialty dental procedures.		
Four-handed dentistry concepts	Using the concepts of four-handed dentistry, assist with dental specialty procedures.		
Sutures	Remove sutures.		
Surgical dressings	Assist with, mix, change, and/or remove periodontal surgical dressings. Assist with, mix change, and/or remove sedative dressings.		
Surgical scrub	Perform a surgical scrub.		
Patient instructions	Provide patient with oral and/or written pre-and post-treatment instructions.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours OBI
CHAIRSIDE ORAL AND MAXILLOFACIAL SURGERY		**0**	**20**
Record data	Record data obtained from medical laboratory reports onto the patient's medical history.		
	Prepare for and assist with the collection of diagnostic data, such as biopsies, pulp test, cytologic smears, and photograph.		
	Record treatment and prescriptions (e.g. medication, instructions) on patient's chart.		
	Recognize present treatment and/or medication.		
Armamentarium	Select and prepare tray set-ups and all necessary armamentarium for specialty dental procedures.		
	Select and prepare tray set-ups and all necessary armamentarium for emergency dental procedures.		
Evacuation	Maintain field of operation during dental procedures through the use of retraction, evacuation, irrigation, drying, etc.		
	Assist with and/or control minor bleeding after extraction or incision.		
Assisting procedures	Using the concepts of four-handed dentistry, assist with dental specialty procedures.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours OBI
Sutures and dressings	Remove sutures. Monitor and record patient's response to drugs/medications. Assist with, mix, change, and/or remove post-extraction dressings.		
Asepsis	Prevent cross-contamination and disease-transmission at chairside. Use disposable equipment, instruments, supplies when possible Protect one's self, the patient, and the operator through the use of barrier techniques.		
Patient instruction	Provide patient with oral and/or written pre-and post-treatment instructions.		
MANAGEMENT OF SPECIAL PATIENT		**0**	**10**
Apprehensive patients	Demonstrate ability to calm and reassure apprehensive patients.		
Special needs patients	Deal with all types of patients including patients with special needs and problems. Monitor and record patient's response to drugs/medications.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours OBI
MANAGEMENT OF DENTAL OFFICE EMERGENCIES		**0**	**10**
Record data	Assist with the assessment of patient's general physical abnormal characteristics.		
	Recognize present treatment and/or medication.		
Vital signs	Take and record temperature.		
	Take and record pulse rate and description.		
	Measure and record blood pressure.		
	Observe and record respiration rate.		
Armamentarium	Select and prepare tray set-ups and all necessary armamentarium for emergency dental procedures.		
	Assemble and maintain appropriate emergency supplies, drugs and equipment.		
Preventive techniques	Implement techniques for the prevention of medical emergencies in patients with histories, of conditions, such as: allergies, heart and blood disorders, congenital diseases, diabetes, and hepatitis.		

Recommended Outline	After completing this section, the student will:	Hours Class OBI
	Recognize the signs and symptoms related to specific medical conditions/emergencies likely to occur in the dental office.	
	Recognize the signs and symptoms related to specific dental conditions/emergencies like to occur in the office.	
Assist with emergencies	Respond to and assist in the management of chairside emergencies including CPR.	
	Prepare a procedures for position to follow when an emergency occurs.	
	Implement and/or assist with appropriate procedures for the management of dental emergencies.	

SPECIFIC OCCUPATIONAL

DEN 125 - Dental Practicum VI

Resources

Chasteen, J. E. (1989). *Essentials of clinical dental assisting* (4th ed.). St. Louis: C. V. Mosby.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W. B. Saunders.

SPECIFIC OCCUPATIONAL

DEN 126 - Dental Practicum VII

Course Overview

Course Description

Practicum continues to focus on assisting chairside with general dentistry and dental specialty procedures. Topics include: dental office management, preventive dentistry, and expanded functions.

Competency Areas

Chairside General Dentistry
Preventive Dentistry
Dental Office Management
Expanded Functions

Prerequisites/Corequisites

DEN 104, DEN 115, DEN 117, DEN 120

Credit Hours

2

Contact Hours Per Week

Class - 0

O.B.I. - 8

SPECIFIC OCCUPATIONAL

DEN 126 - Dental Practicum VII

Course Outline

Recommended Outline	After completing this section, the student will:	Hours Class	Hours OBI
CHAIRSIDE GENERAL DENTISTRY		**0**	**20**
Treatment room	Prepare the treatment room to receive and treat the patient using infection control procedures.		
Armamentarium	Prepare appropriate treatment trays with armamentarium in sequence of use delivery position.		
Seat Patient	Seat and prepare patient: position and adjust equipment.		
Four-handed dentistry concepts	Implement four-handed dentistry concepts in all treatments procedures.		
Isolation techniques	Maintain field of operation during dental procedures through the use of retraction, evacuation, irrigation, drying, etc.		
General dentistry procedures	Using the concepts of four-handed dentistry, assist with general dentistry procedures.		
Specialty procedures	Using the concepts of four-handed dentistry, assist with dental specialty procedures.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours OBI
Safety measures	Follow the guidelines of occupational safety for dental office personnel as specified by Occupational Safety and Health Association and American Dental Association. Incorporate all safety measures when using and delivering toxic materials or irritants.		
PREVENTIVE DENTISTRY		**0**	**20**
Dental health presentations	Develop and implement patient dental health education presentations. Explain and clarify the procedures and services being delivered and their consequences to patient and/ or family.		
Periodontal disease	Explain the etiology and prevention of dental disease, e. g. caries, peridental disease, oral cancer, etc.		
Fluoride	Explain to the patient the effects of all types of fluorides and possible side effects.		
Patient instuctions	Provide patient with oral and/or written pre-and post-treatment instructions. Instruct the patient how to care for removable and nonremovable appliances and prostheses.		

Recommended Outline	After completing this section, the student will:	Hours Class	Hours OBI
	Provide preventive oral health care information to the patient based on individual needs.		
Motivation	Evaluate the patient's oral health care status and habits.		
Toothbrushing techniques	Instruct the patient in appropriate toothbrush selection and brushing techniques.		
Plaque control aids	Select and use plaque disclosing aids in patient education.		
	Select and use oral hygiene devices such as brushes, floss, fluoride rinses, and irrigating aids.		
	Evaluate the patient's progress in and response to homecare therapy.		
Nutritional needs	Instruct and evaluate basic nutritional needs of individual patients.		
Development of caries	Explain to the patient the relationship of carbohydrates to the development of dental cares.		
DENTAL OFFICE MANAGEMENT		**0**	**20**
Supplies and inventory control	Maintain and control supplies through and inventory control system.		
	Order and purchase supplies.		

Recommended Outline	After completing this section, the student will:	Hours Class OBI
Administrative procedures	Communicate effectively and establish a good working relationships with patients and with other members of the dental health care team.	
	Establish and maintain an effective appointment control system.	
	Present case presentations to patients and set up payments systems.	
	Perform general office procedures.	
	Utilize effective telephone techniques.	
	Prepare business correspondence.	
	Maintain an active recall system.	
	Perform pegboard bookkeeping procedures	
	Perform age analysis of accounts	
	Perform banking procedures.	
	Prepare payroll.	
	Prepare insurance forms.	
	Balance and replenish petty cash	
	Maintain a monthly summary of earnings and expenses	

Recommended Outline	After completing this section, the student will:	Hours Class OBI
	Maintain a yearly summary of earnings and expenses	
	Use basic computer skills for performing front office procedures.	
	Maintain a filing system for patient and practice records.	
	Identify the legal significance of medical and dental histories.	
	Identify items included as part of legally documented patient record.	
	Implement precautions necessary in lending records to another dental office.	
	Differentiate between the various types of patient data in the dental office.	
	File items, including radiographs, histories, correspondence, ets. into individual patient records.	
	Record patient telephone communication.	
Ethical responsibilities	Practice according to the code of ethics of the American Dental Association and the American Dental Assistants Association.	

Recommended Outline	After completing this section, the student will:	Hours Class	Hours OBI
	Identify the factors and precautions necessary to prevent lawsuits against dental personnel.		
	Identify the responsibilities and/or obligations of the dentist and patients in the dentist-patient relationship.		
	Obtain consent for routine emergency office dental care.		
	Maintain the patient's right to privacy.		
	Identify the action that a dental assistant should take after a threat to sue for malpractice.		
	Recognize the legal responsibilities of the dental assistant in relation to the State Dental Practice Act.		
EXPANDED FUNCTIONS		**0**	**20**
Procedures for expanded functions	Assist with and/or polish teeth.		
	Assist with and/or apply topical fluoride		
	Assist with a vitality test.		
	Assist with and/or control minor bleeding after extraction or incision.		

Recommended Outline	After completing this section, the student will:	Hours Class OBI
	Assist with and/or monitor the administration of nitrous oxide/oxygen analgesia.	
	Remove sutures.	

SPECIFIC OCCUPATIONAL

DEN 126 - Dental Practicum VII

Resources

Chasteen, J. E. (1989). *Essentials of clinical dental assisting* (4th ed.). St. Louis: C. V. Mosby.

Leimone, C. A., & Earl, E. M. (1988). *Dental assisting: Basic and dental sciences.* St. Louis: C. V. Mosby.

Malamed, S. F. (1987). *Handbook of medical emergencies in the dental office* (3rd ed.). St. Louis: C. V. Mosby.

Torres, H. O., & Ehrlich, A. (1989). *Modern dental assisting* (4th ed.). Philadelphia: W. B. Saunders.

APPENDIX A

EQUIPMENT LIST

APPENDIX A

Dental Assisting

Equipment List

Adding Machine
Air Compressors
Amalgamator (Mechanical)
Aluminum Shell
Amalgam Instrument
Anesthetic (Gas) Equipment
Articulator
Aspirators
Assistant's Stool
Burr Basket
Cotton Roll Holder
Camera
Cavitron
Centrifugal Casting Machine
Copper Bands
Conventional Dental Units
Culture Tubes & Plates
Electric Burn-Out Furnace
Electric Welding Machine
Electronically Operated Mallets
Glass Slab
Gold Foil Equipment
Hand Cutting Instruments
Hemolet
High Speed Dental Units
Hydrocolloid Conditioners
Impression Trays
Matrix Retainers
Mechanical Instrument Sharpener
Mechanical Mixer
Microscopes
Mobile Cabinet
Mobile Oral Evacuating Machine
Model Trimmers
Modular Cabinets
Mortar and Pestle

Motor Dental Chair Non-Cutting Instruments
Operating Light
Operators Stool
Operating Unit
Oral Evacuating Machine
Oral Surgery Mallet and Points
Oxygen Equipment
Perio Probe
Portable Dental Units
Reamers and File
Resuscitation Equipment
Rotary Cutting Instruments
Rubber Dam Equipment
Scales
Slides
Spatulas
Suction Apparatus
Sterilizers
Surgical Instruments
Syringes
Taper Recorders
Telephone
Thermofax Machine
Typewriters
Ultrasonic Potable Unit
Vacuum Pump
Vibrator
View Box
X-Ray Machine
X-Ray Processing Equipment
Amalgam Dispenser
Syringe Warmer
Pulp Tester
Pneumatic Condenser
Dental Lathe
Tonator For Fluoride
Gas Burner
Polishing Instruments
Panorex
Cephalograph
Dentrometer
Wire Farming Tools

Wax Templates
Camron-Mitter Electrosurg
Hemostats
Retractors
Blood Pressure Cuff

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